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Water Supply Outlook For Utah



SOIL CONSERVATION SERVICE
U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

UTAH STATE DEPARTMENT of NATURAL RESOURCES

AS OF
FEB. 1, 1980

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: THE SNOTEL PROJECT CENTRAL COMPUTER FACILITIES IN PORTLAND, OREGON. THE TERMINAL, PRINTER, COMPUTER AND TAPE DRIVES HAVE NOT COMPLETELY REPLACED THE SNOW SAMPLING TUBES SEEN IN THE FOREGROUND.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.



WATER SUPPLY OUTLOOK FOR UTAH

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

NORMAN A. BERG

ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D.C.

|||||
Released by

GEORGE D. McMILLAN

STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
SALT LAKE CITY, UTAH

In Cooperation with

UTAH STATE DEPT. OF NATURAL RESOURCES

DEE C. HANSEN
State Engineer

Division of Water Rights

DANIEL F. LAWRENCE
Director

Division of Water Resources
|||||

Report prepared by

BOB L. WHALEY, Snow Survey Supervisor
DAVID A. JOHNCOX, Hydrologic Technician

and

JOAN E. OLSEN, Clerk

SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
4420 FEDERAL BUILDING
SALT LAKE CITY, UTAH 84138

PROSPECTIVE WATER SUPPLIES

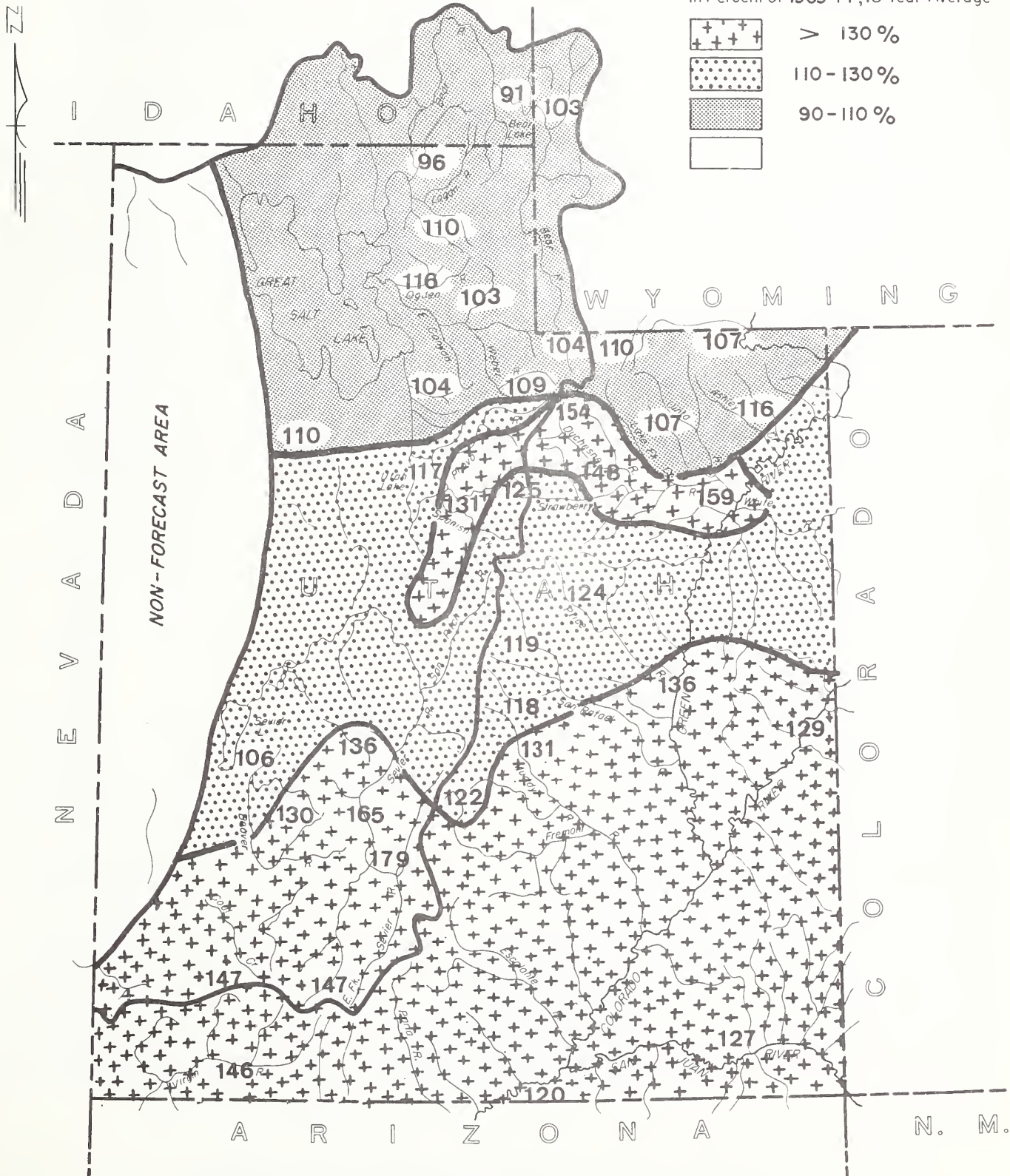
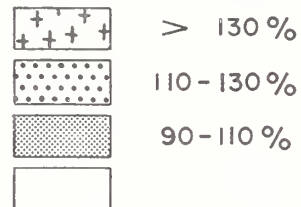
Based on Snow Surveys Made on
UTAH and BEAR RIVER WATERSHEDS

February 1, 1980

Approximate Date

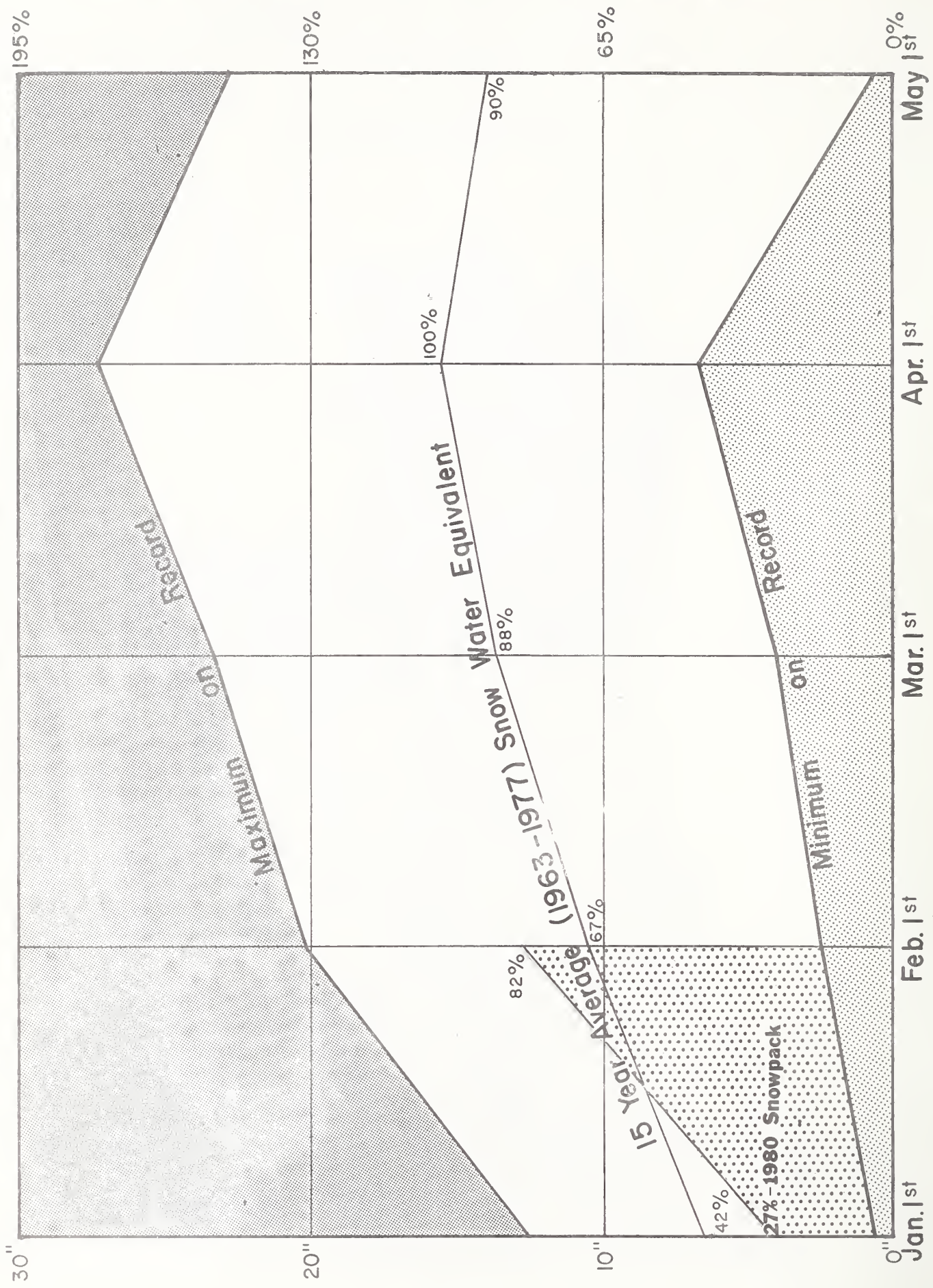


FORECAST STREAM FLOW
in Percent of 1963-77, 15 Year Average



UTAH'S WINTER SNOWPACK

Data based on 51 selected snow courses



WATER SUPPLY OUTLOOK

as of
February 1, 1980

* * * * *
* Utah's 1980 water supply outlook ranges from near average *
* in the north to above average in the south. Snow cover *
* improved dramatically and now ranges from average to *
* 176% of average. Reservoir storage is near average state- *
* wide and streamflow is forecast from near average in the *
* north to better than one and one half times average in *
* Southern Utah. *
* * * * *

SNOW COVER

Snow cover has improved with good January storms and now range from 94% of average along the Salt Lake Front to 176% in the southeastern corner of the state on the Blue Mountains. Bear River is 111% of average, Ogden 124%, Weber 113%, Provo 131%, Duchesne 140%, Price 135%, San Rafael 117%, Muddy 143%, Fremont 128%, Upper Sevier 159%, Lower Sevier 116%, Beaver 136%, Coal Creek 145%, and Virgin River 161%.

PRECIPITATION

Precipitation at mountain stations ranged from one and one half times average for January in northern Utah to over four times average in southern Utah. The greatest increase was 17.95 inches at Timpanogos Divide on the American Fork drainage.

SOIL MOISTURE

Watershed soils generally improved at lower elevations and are now near average but remain drier than average at higher elevations.

RESERVOIR STORAGE

Storage in 26 key irrigation reservoirs is about 101% of the February 1 average. Reservoirs in Uintah Basin are below average while those in southern Utah are above average.

STREAMFLOW FORECASTS

Streamflow forecasts now range from 89% of the April-July average for the Bear at Randolph to 179% on the East Fork Sevier.

Bear River is forecast 104% at stateline, 91% at Harer, Idaho, and Logan River 102%. Pineview Inflow is forecast 116%, the Weber at Oakley 109%, Chalk Creek 110%, East Canyon 104%. Lost Creek 103% and Echo Inflow 104%. Provo River is forecast 125% at Hailstone, 135% at Deer Creek, and 117% for the Utah Lake Inflow. Streams along the Salt Lake front range from 119% for Mill Creek to 97% for Big Cottonwood.

WATER SUPPLY OUTLOOK (continued)

Streams in Uintah Basin range from 98% of average on Yellowstone to 172% for the Duchesne at Myton. Lakefork Creek is forecast 103% and Ashley Creek 116% of the April-July average.

Streamflow forecasts on the Price drainage range from 119% for Scofield Inflow to 130% for Gooseberry Creek and 124% for Price at Heiner. Huntington Creek is forecast 119%, Cottonwood 108%, Ferron Creek 118%, Muddy 131% and Seven Mile Creek 122%.

Sevier River forecasts range from 119% for Pleasant Creek to 179% for the East Fork Sevier. The Sevier is forecast 147% at Hatch, 160% at Circleville, 157% at Kingston and 145% at Gunnison. Salina Creek is forecast 130%, Chalk Creek 136%, and Ephraim Creek 135%. Beaver River is forecast 130% at Beaver and 106% for Minersville Reservoir Inflow.

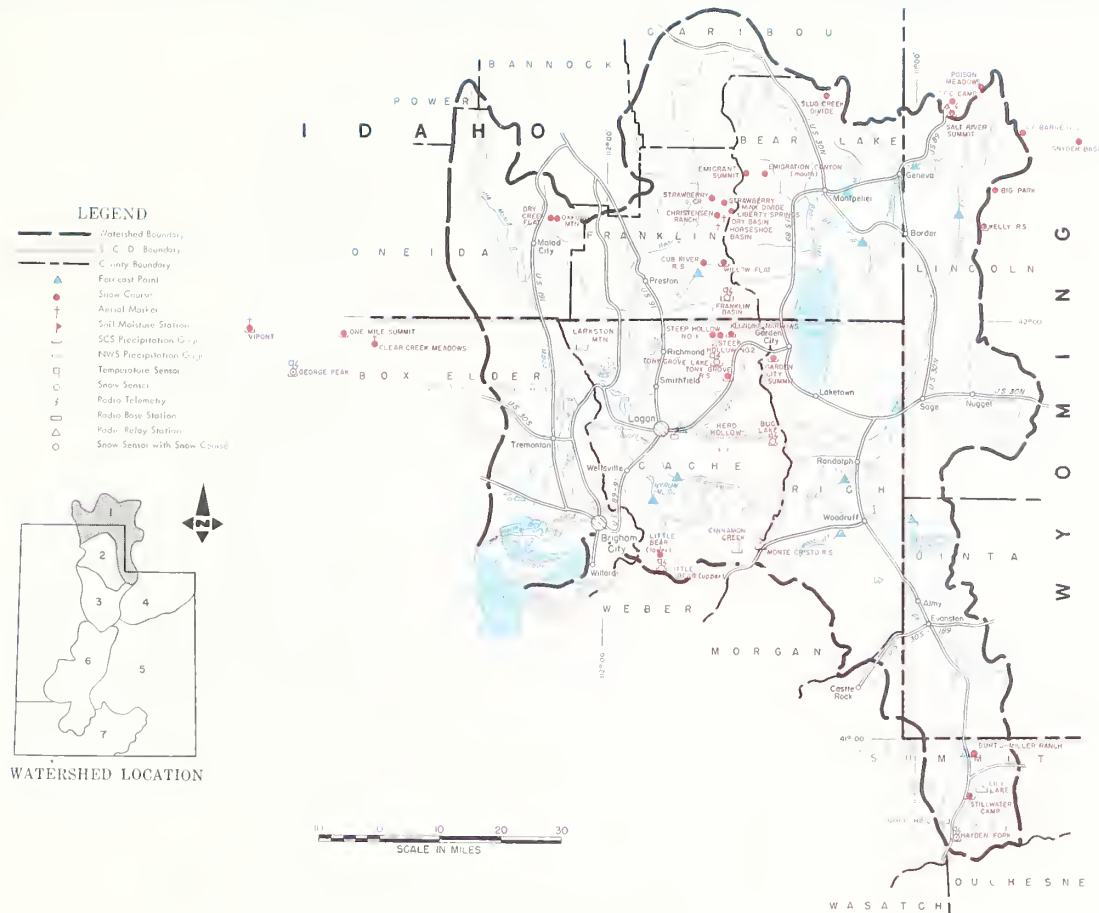
Coal Creek is forecast 147% of average, the Virgin River and Santa Clara 146%, and Lake Powell Inflow 120% of the April-July average.

All water users of the state are expected to have adequate water supplies except possibly some on reservoir water only in Uintah Basin.

WATER SUPPLY OUTLOOK

BEAR RIVER BASIN in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



FEBRUARY 1, 1980

THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE

SNOW COVER ranges from 107% of the February 1 average on the Logan River to 116% on the Upper Bear River.

PRECIPITATION at mountain stations varied from 166% of average for January at Salt River Summit to 225% at Garden City Summit.

SOIL MOISTURE under the high snow pack is drier than average. Lower elevations picked up moisture during January.

RESERVOIR STORAGE in Bear Lake is 973,400 acre feet (95%). Woodruff Narrows has 12,500 acre feet (64%), and Hyrum and Porcupine are near average with 10,200 and 2,800 acre feet respectively.

STREAMFLOW FORECASTS range from 89% of the April-July average for the Bear near Randolph to 110% for the Little Bear near Paradise. Other forecasts are as follows: Bear River near Stateline 104%, near Woodruff 95%, at Harer, Idaho 91%, Smith's Fork 102%, Thomas Fork 103%, Logan 102%, Blacksmith Fork 102%, and Woodruff Creek 91%. Most water users are expected to have about average water supplies this season.

BEAR RIVER BASIN in UTAH

STREAMFLOW FORECASTS

STREAMFLOW FORECASTS	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
BEAR RIVER					
Bear nr UT-Wyo. State Line	119	104	Apr-July	93	114
Bear nr Woodruff	141	95	Apr-July	100	148
Woodruff Crk nr Woodruff, UT	16.8	91	Apr-July	17.4	18.4b
Big Creek nr Randolph, Utah	4.3	102	Apr-July	4.5	4.2b
Bear nr Randolph	107	89	Apr-July	80	120
Thomas Fork nr UT-Wy State Ln	36	103	Apr-Sept	38	35
Smith's Fork nr Border, Wyo.	122	102	Apr-Sept	130	120
Bear at Harer, Idaho 1/	303	91	Apr-Sept	288	332
Logan nr Logan 1	120	102	Apr-July	125	118
Blacksmith Fork nr Hyrum	55	102	Apr-July	57	54
Little Bear nr Paradise	42	110	Apr-June	37	38
Cub River nr Preston, ID	50	96	Apr-Sept	52	52
1 - Observed flow corrected for change in storage and diversions					
2 - Provisional flows - Subject to correction					
b - Average of all past record - less than 15 years					

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
BEAR RIVER	19	96	111
UPPER BEAR RIVER	5	110	116
LOWER BEAR RIVER	14	92	109
LOGAN RIVER	7	94	107

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average †
BEAR RIVER	Bear Lake	1421.0	973.4	1003.7	1026.5
	Woodruff Narrows	26.5	12.5	17.3	19.5
LITTLE BEAR	Hyrum	15.3	10.2	10.2	10.6
	Porcupine	11.3	2.8	3.4	3.0
+ - 1963-77 15 year Average Period					
e - estimated					

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
Bear River nr UT/WY Stateline	Will publish March 1.	
Big Creek nr Randolph		
Logan River nr Logan		
Woodruff Creek nr Woodruff		
Little Bear nr Paradise		

SNOW

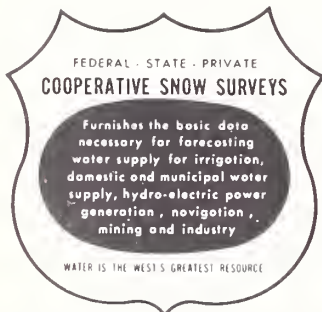
DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
Burts-Miller Ranch	1/31	31	5.9	4.5	--
Cub River R.S.	2/3	22	6.2	8.6	6.4
Emigrant Summit	1/30	65	16.6	17.8	17.0
Franklin Basin	2/3	50	18.1	18.1	17.8a
Hayden Fork	1/31	50	13.3	9.2	9.6b
Klondike Narrows	2/3	45	16.3	15.5	13.0

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
Little Bear Lower	2/3	24	7.7	10.6	6.2
Little Bear Upper	2/3	28	8.2	12.5	8.7b
Monte Cristo	2/3	61	19.8	16.9	16.3
Salt River Summit	1/30	46	10.2	12.2	11.0
Stillwater Camp	1/31	45	9.8	7.8	7.2
Tony Grove R.S.	2/3	30	9.4	12.4	8.6

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WATER SUPPLY OUTLOOK

WEBER-OGDEN WATERSHEDS in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



FEBRUARY 1, 1980

THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE

SNOW COVER is now 113% of the February 1 average on the Weber River and 124% on the Ogden River.

PRECIPITATION at mountain stations during January ranged from 163% at Farmington Lower to 276% at Causey Dam.

SOIL MOISTURE under the medium and high elevation snow pack is drier than average but lower elevations improved during January.

RESERVOIR STORAGE ranges from 78% of average at Rockport to 144% at Willard Bay. Echo is 90% of average, Lost Creek is 105% and East Canyon is 110%. Pineview is 131% of average and Causey is 135%.

STREAMFLOW FORECASTS range from 93% of the April-June average on Hard-scrabble Creek to 116% for Pineview Inflow. Weber River is forecast 109% at Oakley, 107% at Rockport, 104% for Echo Inflow and 106% at Gateway. Lost Creek is forecast 103%, Chalk Creek 110%, and East Canyon 104%. All water users are expected to have near average water supplies this season.

WEBER-OGDEN WATERSHEDS in UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	FORECAST			THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
WEBER-OGDEN RIVERS					
Weber nr Oakley	113	109	Apr-June	76	104
Rockport Reservoir Inflow ¹	120	107	Apr-June	84	112
Chalk Creek at Coalville	43	110	Apr-June	29	39
Weber nr Coalville	125	102	Apr-June	91	123
Echo Reservoir Inflow ¹	167	104	Apr-June	--	160
Lost Creek nr Croydon, Utah	18.0	103	Apr-June	14	17.4b
East Canyon Creek nr Morgan ¹	27	104	Apr-June	18.8	26
Hardscrabble Crk nr Porterville	18.4	93	Apr-June	17.0	18.8
South Fork Ogden nr Huntsville	65	114	Apr-June	61	57
Pineview Reservoir Inflow ²	133	116	Apr-June	125	115
Weber at Gateway	326	106	Apr-June	258	308
JORDAN RIVER & SALT LAKE					
Farmington Crk nr Farmington	7.7	95	Apr-July	8.1	8.1b
1 - Observed flow corrected for change in storage and diversions					
2 - Inflow record as computed by U.S. Bureau of Reclamation					
3 - Provisional flows - Subject to Correction					

- 1 - Observed flow corrected for change in storage and diversions
 2 - Inflow record as computed by U.S. Bureau of Reclamation
 3 - Provisional flows - Subject to Correction
 b - Average of all past record - less than 15 years

RESERVOIR STORAGE (Thousand Acra Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average †
OGDEN	Causey	6.9	2.7	1.4	2.0b
	Pineview	110.1	68.4	52.6	52.2
WEBER	East Canyon	48.1	30.5	36.8	27.6
	Echo	73.9	43.8	63.7	48.5
	Lost Creek	20.0	13.6	14.7	12.9
	Rockport	60.9	27.5	33.6	35.2
	Willard Bay	193.3	183.5	161.7	127.2b

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
OGDEN RIVER	5	97	124
WEBER RIVER	9	106	113

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
South Fork Ogden nr Huntsville	Will publish March 1.	
Chalk Creek nr Coalville		

SNOW

DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	THIS YEAR		PAST RECORD	
		Snow Depth (Inches)	Water Content (Inches)	Last Year	Average †
Beaver Creek R.S.	2/1	35	8.6	5.8	5.9
Beaver Creek-Skunk Creek	2/2	34	10.8	10.8	8.3
Ben Lomond Peak	2/3	74	27.3	28.1	22.4b
Ben Lomond Trail	2/3	43	13.8	17.4	12.4b
Chalk Creek #1	2/1	71	18.7	12.6	13.6a
Chalk Creek #2	2/1	50	12.0	8.2	9.7
Dry Bread Pond	2/2	45	15.9	13.5	12.2

SNOW

DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	THIS YEAR		PAST RECORD	
		Snow Depth (Inches)	Water Content (Inches)	Last Year	Average †
Horse Ridge	2/2	56	17.1	18.5	15.0a
Lost Creek Reservoir	--	--	--	6.9	--
Monte Cristo	2/3	61	19.8	16.9	16.3
Parleys Canyon Summit	2/1	45	11.6	11.9	12.7
Sagebrush Flat	2/2	23	6.0	5.8	4.1
Smith & Morehouse	2/1	39	10.6	8.5	8.9
Trial Lake	2/1	87	20.4	16.8	15.6

e - estimated

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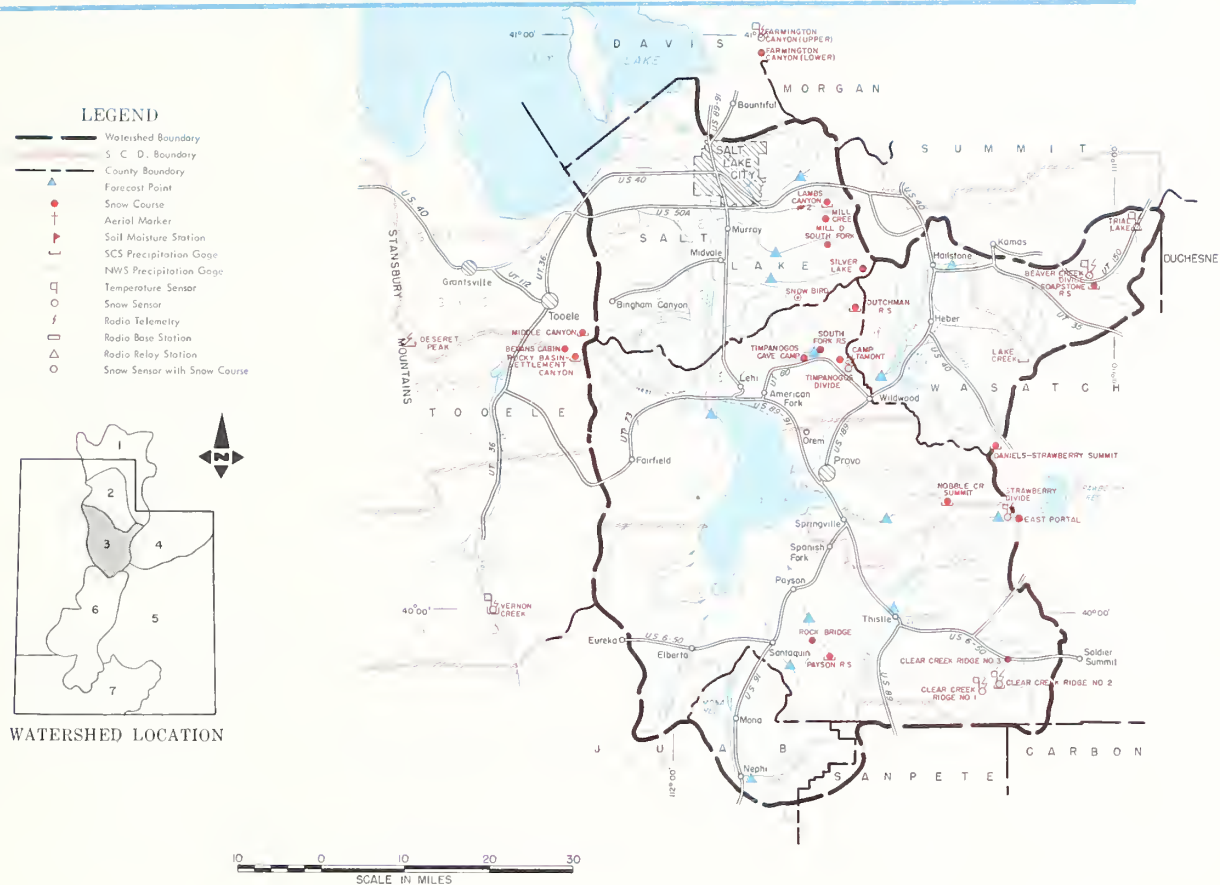
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WATER SUPPLY OUTLOOK

UTAH LAKE, JORDAN RIVER and TOOELE VALLEY WATERSHEDS in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



FEBRUARY 1, 1980

THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE

SNOW COVER ranges from 94% of average in Jordan River and Tooele Valley drainages to 131% on Provo River and Utah Lake drainages.

PRECIPITATION at mountain stations during January ranged from 144% of average at Middle Canyon above Tooele to 361% of average at Timpanogos Divide.

SOIL MOISTURE is still below average at higher elevations but improved at medium elevations and above average at valley locations.

RESERVOIR STORAGE ranges from 95% of average at Deer Creek to 107% in Utah Lake. Strawberry is 105% of the February 1 average, Vernon Creek is full and Settlement Canyon is half full.

STREAMFLOW FORECASTS range from 90% of average for Vernon Creek to 155% for Hobble Creek. The Provo River is forecast 125% at Hailstone, 135% at Deer Creek Dam and 117% for Utah Lake Inflow. American Fork is forecast 113%, Spanish Fork 131%, Strawberry Inflow 125% and Payson Creek 115%. Little Cottonwood is forecast 101%, Big Cottonwood 97%, Parleys 104%, Mill Creek 119%, Emigration 103% and City Creek 111% of average. Near average or better than average water supplies are expected for water users in the basin this season.

UTAH LAKE, JOROAN RIVER and TOOELE VALLEY WATERSHEDS in UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
PROVO RIVER AND UTAH LAKE					
Provo nr Hailstone 1	128	125	Apr-July	110	109
Provo below Deer Creek Dam 1	162	135	Apr-July	135	122
American Fork nr American Fork	35	113	Apr-July	35	31
Hobble Creek nr Springville 1	27	155	Apr-July	22	19.7b
Strawberry Reservoir Inflow	65	125	Apr-July	59	52
Spanish Fork at Thistle	51	131	Apr-July	45	39
Payson Creek nr Payson	7.2	115	Apr-July	7.0	--
Utah Lake Inflow	285	117	Apr-July	270	244
JOROAN RIVER & SALT LAKE					
Little Cottonwood Crk nr SLC	38	101	Apr-July	39	38
Big Cottonwood nr SLC	37	97	Apr-July	41	38
Parley's Creek nr SLC	16	104	Apr-July	15.0	15.4
Mill Creek nr SLC	7.5	119	Apr-July	7.0	8.8
Emigration Creek nr SLC	4.1	103	Apr-July	4.5	4.9
City Creek nr SLC	8.9	111	Apr-July	10.5	10.7
TOOELE VALLEY					
Vernon Creek nr Vernon	0.9	90	Mar-July	2.0	1.0
Settlement Crk nr Tooele			Apr-July		

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average †
SPANISH FORK	Strawberry	270.0	158.8	161.5	150.8
UTAH LAKE	Utah Lake	883.9	732.5	780.1	683.1
	Settlement Creek	1.2	0.6	0.6	--
	Vernon Creek	0.6	0.6	0.6	--
PROVO	Deer Creek	149.7	102.1	84.7	107.0

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
PROVO RIVER & UTAH LAKE	13	109	131
JORDAN RIVER & SALT LAKE	3	96	94
TOOELE VALLEY	2	76	94

1 - Observed flow corrected for change in storage and diversions
2 - Provisional flows - Subject to correction
a - Partly estimated

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
Hobble Creek nr Springville	Will publish March 1.	
Spanish Fork nr Thistle		
Big Cottonwood nr Salt Lake City		

SNOW

DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	THIS YEAR		PAST RECORD	
		Snow Depth (Inches)	Water Content (Inches)	Last Year	Average †
Bevans Cabin	--	--	--	--	--
Camp Altamont	2/1	43	14.4	16.5	10.2
Clear Creek #1	2/2	56	17.3	14.2	11.2b
Clear Creek #2	2/2	48	12.9	12.5	9.6b
Clear Creek #3	2/2	29	7.4	--	5.5
Oaniels-Strawberry Summit	2/2	48	14.1	10.6	10.0
Oeseret Peak	--	--	--	--	--
Dutchman R.S.	2/1	55	17.6	--	12.9
Hobble Creek Summit	2/2	42	10.9	--	9.6
Lambs Canyon #2	1/31	43	10.4	10.2	11.1
Middle Canyon	1/31	31	7.7	9.6	9.2
Mill Creek	2/1	40	10.7	10.9	12.4

SNOW

DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	THIS YEAR		PAST RECORD	
		Snow Depth (Inches)	Water Content (Inches)	Last Year	Average †
Mill D South Fork	1/28	34	10.5	12.2	13.2
Parleys Canyon Summit	2/1	45	11.6	11.9	12.7
Payson R.S.	2/2	51	15.2	12.2	12.2
Rocky Basin-Settlement Canyon	--	--	--	--	--
Silver Lake Brighton	1/28	61	17.0	15.6	15.8
Soapstone R.S.	2/1	48	10.8	9.5	8.6
South Fork R.S.	2/1	20	4.3	8.8	4.5
Timpanogos Oivide	1/31	72	23.2	21.7	16.9
Trial Lake	2/1	87	20.4	16.8	15.6
Vernon Creek	1/30	36	8.0	11.2	7.5b

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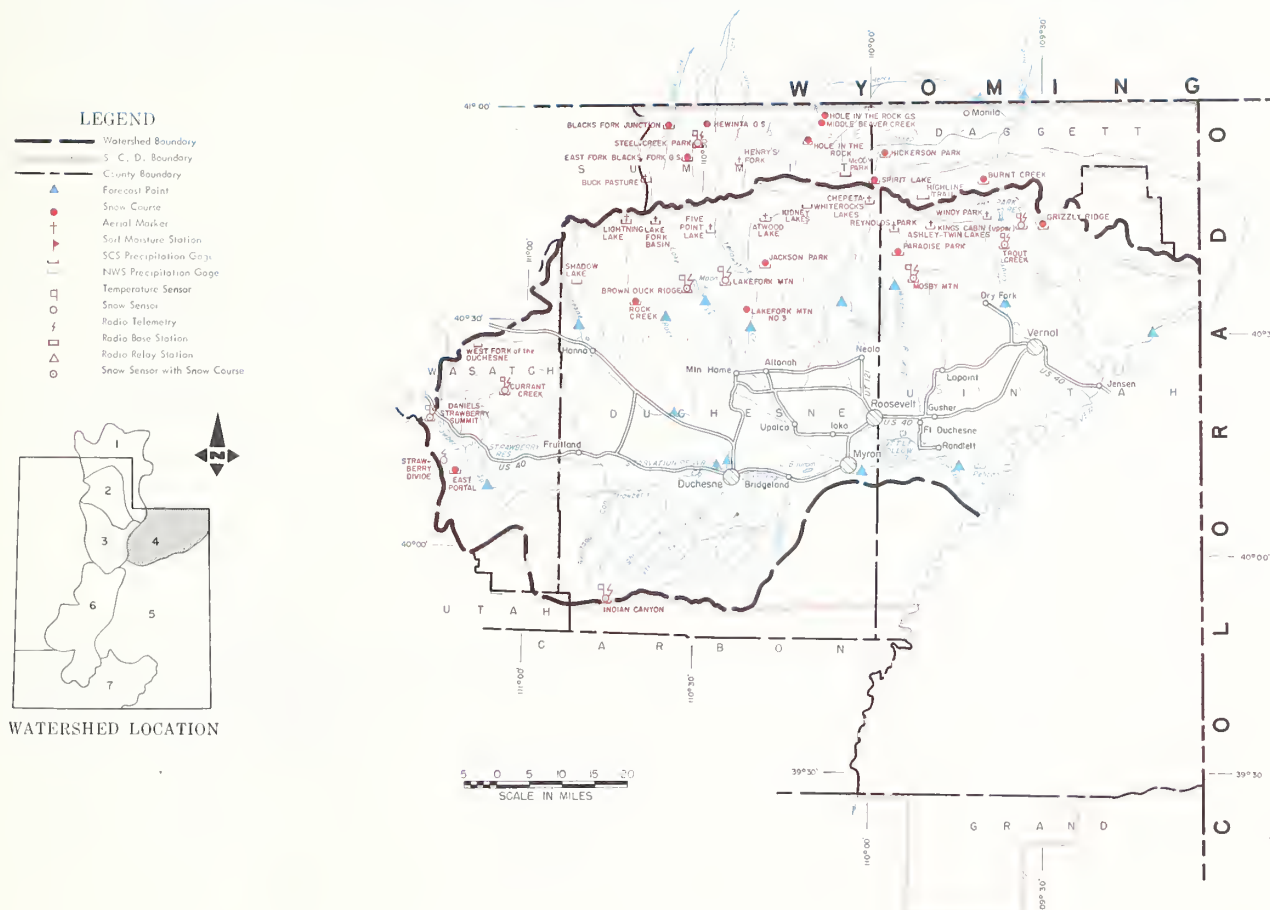
FIRST CLASS MAIL

"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK

UINTAH BASIN and DAGGETT SCD's in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



FEBRUARY 1, 1980

THE WATER SUPPLY OUTLOOK RANGES FROM NEAR AVERAGE TO ABOVE AVERAGE

SNOW COVER has improved greatly and ranges from 137% on Ashley Creek to 157% on Uintah-Whiterocks drainages. Lakefork-Yellowstone Creeks are 153% and Strawberry River is 150%.

PRECIPITATION at mountain stations for January ranges from 138% at Burnt Creek to 349% at Mosby Mountain.

SOIL MOISTURE is generally below average.

RESERVOIR STORAGE is below average with Steinaker 66%, Moon Lake 44% and Starvation 32%.

STREAMFLOW FORECASTS range from 93% of average on Henry's Fork to 172% for the Duchesne at Myton. The Duchesne is forecast 148% at Tabiona, 144% at Duchesne and 159% at Randlett. Curreant Creek is forecast 105%, Rock Creek 126%, Lakefork 103%, Yellowstone 98%, Uintah 107%, Whiterocks 102%, Ashley Creek 116% and Blacks Fork 110%. Most water users are expected to have adequate water supplies this season. Some may have reduced supplies on reservoir storage only if reservoirs do not fill as runoff progresses this spring.

UINTAH BASIN and DAGGETT SCD's in UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD		
	FORECAST		FORECAST	THOUSAND ACRE FEET	
	Thousand Acres Feet	Percent of Average	PERIOD	Last Year	Average †
DUCHESNE RIVER					
Duchesne nr Tabiona ¹	158	148	Apr-July	98	107
Duchesne at Duchesne	277	144	Apr-July	178	193
Strawberry at Duchesne	76	133	Apr-July	60	57
Rock Creek nr Mtn. Home	120	126	Apr-July	99	95
Current Creek nr Fruitlapd	21	105	Apr-July	21	20
Lakefork below Moon Lake ¹	74	103	Apr-July	72	72
Yellowstone nr Altonah	66	98	Apr-July	68	67
Duchesne at Myton ¹	362	172	Apr-July	220	210
Whiterocks nr Whiterock	61	102	Apr-July	57	60
Uintah nr Neola	95	107	Apr-July	90	89
Duchesne at Randlett ¹	424	159	Apr-July	266	266
West Fork Duchesne at Hanna	40	154	Apr-July	25	26
FLAMING GORGE TO DUCHESNE RIVER					
Henry's Fork nr Manila	50	93	Apr-Sept	48	54
Black's Fork at Millburne	101	110	Apr-July	80	92
Flaming Gorge Inflow ¹	1380	107	Apr-July	1300	1292
Ashley Creek nr Vernal	59	116	Apr-July	57	51

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
DUCHESNE RIVER - TOTAL	9	100	140
LAKEFORK-YELLOWSTONE CREEKS	1	102	153
STRAWBERRY RIVER	2	133	150
UINTAH - WHITEROCKS RIVERS	2	114	157
ASHLEY CREEK	1	132	137
BLACK'S FORK			

1 - Observed flow corrected for change in storage and diversions
2 - Provisional flows - Subject to correction

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average †
ASHLEY CREEK	Steinaker	33.3	13.6	11.3	20.5
GREEN RIVER	Flaming Gorge	3749.0	2318.0	2595.4	--
LAKE FORK	Moon Lake	35.8	7.5	6.9	16.8
STRAWBERRY	Starvation	165.3	42.7	141.6	129.4b
UINTAH	Bottle Hollow	11.3	10.2	9.5	9.8b

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
Strawberry at Duchesne	Will publish March 1.	
Ashley Creek nr Vernal		

SNOW

DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	THIS YEAR		PAST RECORD	
		Snow Depth (Inches)	Water Content (Inches)	Last Year	Average †
Brown Duck Ridge	2/1	69	16.5	--	9.5
Current Creek	2/2	45	11.8	--	7.3b
Daniels-Strawberry	2/2	48	14.1	10.6	10.0
Hewinta G.S.	1/31	38	9.1	6.3	--
Hickerson Park	1/31	33	7.5	5.0	--
Hole-in-the-Rock	--	--	--	--	--
Hole-in-the-Rock G.S.	--	--	--	--	--
Jackson Park	--	--	--	10.5	--
Kings Cabin Upper	1/31	50	10.3	7.8	--

SNOW

DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	THIS YEAR		PAST RECORD	
		Snow Depth (Inches)	Water Content (Inches)	Last Year	Average †
Lakefork Mountain	2/1	46	10.4	10.2	6.8
Mosby Mountain	2/1	44	10.5	7.5	6.3
Paradise Park	2/1	49	12.5	12.6	8.3
Rock Creek Ranch	2/1	36	9.5	6.9	--
Spirit Lake	1/31	41	10.0	9.8	--
Steel Creek Park	1/31	54	13.0	9.0	--
Strawberry Divide	--	--	--	16.4	12.4
Trout Creek	1/31	44	9.5	9.1	--

e - estimated

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UTAH STATE DEPARTMENT OF NATURAL RESOURCES



THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE

STREAMFLOW FORECASTS range from 108% of average on Cottonwood Creek to 136% for the Green at Green River. Other forecasts are as follows: Scofield Inflow 119%, Price near Heiner 124%, Huntington Creek 119%, Ferron Creek 118%, Muddy Creek 131%, Seven Mile Creek 122%, Mill Creek 135%, San Juan 127% at Bluff and the Colorado near Cisco 129%. Water users in this area are expected to have adequate water supplies this season.

CARBON, EMERY, WAYNE, GRAND and SAN JUAN COUNTIES in UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	FORECAST Thousand Acres Feet	Percent of Average		THOUSAND ACRE FEET Last Year	Average †
PRICE RIVER					
Gooseberry Crk nr Scofield	13	130	Apr-July	15.0	10.1
Scofield Reservoir Inflow	43	119	Apr-July	52	36
Price nr Heiner	79	124	Apr-July	90	64
SAN RAFAEL RIVER					
Huntington Crk nr Huntington	55	119	Apr-July	71	49b
Cottonwood Crk nr Orangeville	48	108	Apr-July	48	44b
Ferron Creek nr Ferron	46	118	Apr-July	40	34
MUDDY CREEK					
Muddy Creek nr Emery	22	131	Apr-July	20	16.8
UPPER COLORADO BASIN					
Colorado nr Cisco, Utah	3500	129	Apr-July	4100	2716
Green at Green River, Utah	4040	136	Apr-July	3500	2975
Mill Creek nr Moab	6.9	135	Apr-July	10.0	5.1b
Navajo Reservoir Inflow	810	133	Apr-July	1150	608
San Juan nr Bluff, Utah	1100	127	Apr-July	1600	865
FREMONT RIVER					
Seven Mile Crk nr Fish Lake	7.8	122	Apr-July	7.0	6.4

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average †
PRICE RIVER	Scofield	65.8	43.2	40.0	34.7
SAN RAFAEL	Huntington North	3.9	2.2	1.5	2.4b
	Joe's Valley	54.6	33.8	43.6	36.0b
	Mill Site	16.7	4.0e	5.6	--
SAN JUAN	Navajo	1696.0	1157.0	1180.7	--

+ - 1963-77 15 Year Average Period

b - Average of all past record - Less than 15 years

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
PRICE RIVER	3	93	135
SAN RAFAEL RIVER	6	95	117
FREMONT RIVER	3	74	128
LASAL MOUNTAINS	2	82	145
BLUE MOUNTAINS	2	63	176
MUDDY RIVER	2	109	143

1 - Observed flow corrected for change in storage and diversions
2 - Provisional flows - Subject to correction

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
Ferron Creek near Ferron	Will publish March 1.	
Muddy Creek near Emery		

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average †
Buck Flat	2/1	51	12.8	14.4	10.2
Buckboard Flat	1/28	48	12.7	21.1	7.1e
Camp Jackson	1/28	46	12.6	19.3	7.3e
Dills Camp	2/1	44	10.5	9.6	7.0b
Dry Valley Divide Alternate	2/1	42	9.9	9.9	7.2
Huntington-Horseshoe	2/1	53	16.1	17.6	14.8b

SNOW

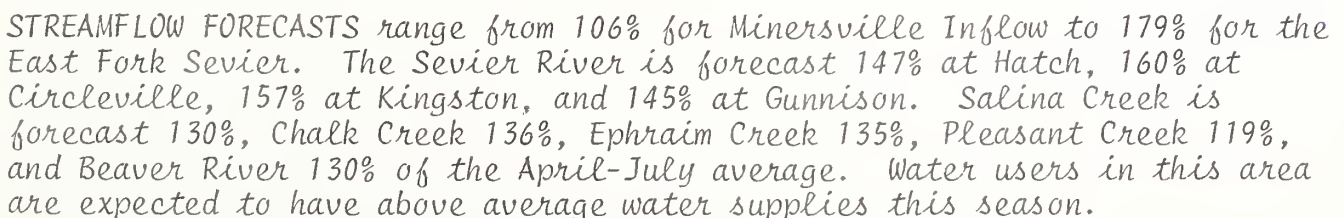
DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average †
Mammoth-Cottonwood R.S.	2/1	51	16.2	16.4	13.2
Monticello City Park	1/31	22	5.9	8.8	--
Mud Creek	2/1	48	11.8	11.8	8.8
Seeley Creek	2/2	37	11.4	12.5	9.3b
White River #1	2/2	44	11.6	13.9	8.6
White River #3	2/2	32	8.2	8.1	--

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UTAH STATE DEPARTMENT OF NATURAL RESOURCES



SEVIER RIVER BASIN including BEAVER RIVER in UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	Thousand Acre Feet	Percent of Average		Thousand Acre Feet	Average ±
SEVIER RIVER					
Sevier at Hatch	60	147	Apr-July	80	41
Sevier nr Circleville	48	160	Apr-July	65	29
Sevier nr Kingston	35	157	Apr-July	53	22
Antimony Crk nr Antimony	11.5	158	Apr-July	14.7	6.9
East Fork Sevier nr Kingston	27	179	Apr-July	38	15.4
Sevier below Piute Dam	60	165	Apr-July	85	36
Clear Crk nr Sevier (abv Div)	25	140	Apr-July	31	17.8
Inflow					
Kingston to Vermillion Dam	70	125	Apr-June	105	56
Vermillion Dam to Gunnison	51	148	Mar-June	55	35
Salina Creek at Salina	15.1	130	Apr-June	18.5	11.1
Sevier nr Gunnison	72	145	Apr-July	78	50
Chalk Creek nr Fillmore	21	136	Apr-July	18.0	15.5b
Chicken Creek nr Levan	4.1	132	Apr-July	--	3.1
Oak Cr. nr Oak City	--	--	Apr-July	--	1.4
SAN PITCH RIVER					
Ephraim Creek nr Ephraim	20	135	Apr-July	28.5	14.5
Pleasant Crk nr Mt. Pleasant	10	119	Apr-July	12.4	8.6
BEAVER RIVER					
Beaver nr Beaver	26	130	Apr-July	32	20
North Creek (Combined)	15.9	130	Apr-July	15.2	12.2b
MINERVILLE RESERVOIR	7.0	106	Apr-June	12.2	6.6

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average ±
SEVIER RIVER					
	Gunnison	18.2	8.0e	9.3	11.7
	Otter Creek	52.5	41.2	19.2	29.6
	Piute	71.8	51.3	27.2	40.1
	Sevier Bridge	236.0	117.7	59.5	113.6
BEAVER RIVER	Minersville (Rky Fd)	23.3	17.2	11.6	12.0

b - Average of all past record - less than 15 years
+ - 1963-77 15 Year Average Period
e - Estimated

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
UPPER SEVIER RIVER	6	72	130
East Fork Sevier	2	62	139
South Fork Sevier	4	80	159
LOWER SEVIER	7	96	116
BEAVER RIVER	3	77	136

1 - Observed flow corrected for change in storage and diversions
2 - Provisional flows - Subject to correction

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average ±
Sevier River at Hatch	Will publish March 1.	
Sevier River nr Circleville		
Sevier River nr Kingston		
Clear Creek nr Sevier		
Salina Creek nr Salina		
Beaver River nr Beaver		

SNOW

DRAINAGE BASIN and/or SNOW COURSE	NAME	THIS YEAR		PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Average ±
Big Flat		1/31	57	13.8	10.0
Bryce Canyon		1/28	18	3.7	3.0
Castle Valley		1/31	41	10.3	--
Duck Creek		2/3	56	14.5	8.0
Farnsworth Lake		2/3	49	14.1	11.8
Gooseberry R.S.		2/3	32	9.1	7.4

SNOW

DRAINAGE BASIN and/or SNOW COURSE	NAME	THIS YEAR		PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Average ±
Harris Flat		2/3	34	9.3	5.3
Kimberly Mine		1/31	55	14.1	9.5b
Long Valley Junction		2/3	32	8.5	3.2
Merchants Valley Upper		1/31	41	9.8	11.2
Midway Valley		2/3	65	18.2	12.7
Otter Lake		1/31	42	10.4	7.5
Pickle Keg Springs		2/1	46	12.3	10.5
Widtsoe-Escalante #3		2/3	36	9.4	6.4

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"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK

EAST GARFIELD, KANE, WASHINGTON and IRON COUNTIES in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER ranges from 145% of the February 1 average on Coal Creek to 161% on the Virgin River. Parowan Creek is 146% of average and Long Flat has as much water as it usually has on March 1 and Little Grassy above Enterprise has twice as much Snow Water Content as it usually has on March 1.

PRECIPITATION at mountain stations was generally heavy ranging from over twice average in Parowan Canyon to more than three times average over most of the rest of the area.

SOIL MOISTURE under the higher elevation snow is still drier than average but medium and lower elevations improved greatly with January precipitation.

RESERVOIR STORAGE is above average. Reports indicate Gunlock and Enterprise Reservoirs are full and spilling as a result of heavy January precipitation and snow melt.

STREAMFLOW FORECASTS range from 120% of the April-July average for Lake Powell Inflow to 146% for the Virgin and Santa Clara and 147% for Coal Creek. Streams flowing into Enterprise Reservoirs and the Santa Clara River still has the potential for high peak flows with better than March 1 average snow pack still on the ground at 6000 foot elevations and above. Above average water supplies are expected for water users in this area this season.

STREAMFLOW FORECASTS

STREAMFLOW FORECASTS	EAST GARFIELD, KANE, WASHINGTON				
	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
Basin, Stream and/or Forecast Point	Thousand Acre Feet	Percent of Average		Last Year	Average †
<u>VIRGIN RIVER</u>					
Virgin nr Hurricane	71	146	Apr-June	93	48.5
Santa Clara nr Pine Valley	6.0	146	Apr-June	8.0	4.1
<u>COAL CREEK</u>					
Coal Creek nr Cedar City	25	147	Apr-July	30	17.0
<u>UPPER COLORADO</u>					
Lake Powell Inflow	8350	120	Apr-July	9700	6952
2 - Provisional Flows - Subject to correction					

EAST GARFIELD, KANE, WASHINGTON and IRON COUNTIES in UTAH

SUMMARY of SNOW MEASUREMENTS

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	
		Average	
COAL CREEK	3	70	145
VIRGIN RIVER	3	66	161
PAROWAN CREEK	3	81	146

RESERVOIR STORAGE (Thousand Acre Foot)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average †
COLORADO	Lake Powell	25002.0	20,904.0	15222.0	---
	Blue Mesa	829.5	510.0	523.2	---
b - Average of all past record - less than 15 years					
+ - 1963-77 15 year Average Period					

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
Coal Creek nr Cedar City	Will publish March 1.	
Virgin nr Virgin		

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
NAME					
Birch Crossing	1/31	31	9.0	9.3	4.3b
Brian Head	1/31	59	15.5	21.2	12.4b
Harris Flat	2/3	34	9.3	14.0	5.3
Kolob-Crystal	2/3	69	18.5	28.8	13.3b
Little Grassy	2/3	22	7.3	13.5	--
Long Flat	2/3	22	5.7	13.6	4.7

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
NAME					
Long Valley Junction	2/3	32	8.5	15.8	3.2
SUSC Ranch	1/31	29	7.3	14.0	5.8b
Tall Poles	1/31	47	12.2	14.7	8.5b
Webster Flat	2/3	57	16.1	21.0	10.2
Yankee Reservoir	1/31	29	7.6	10.6	--

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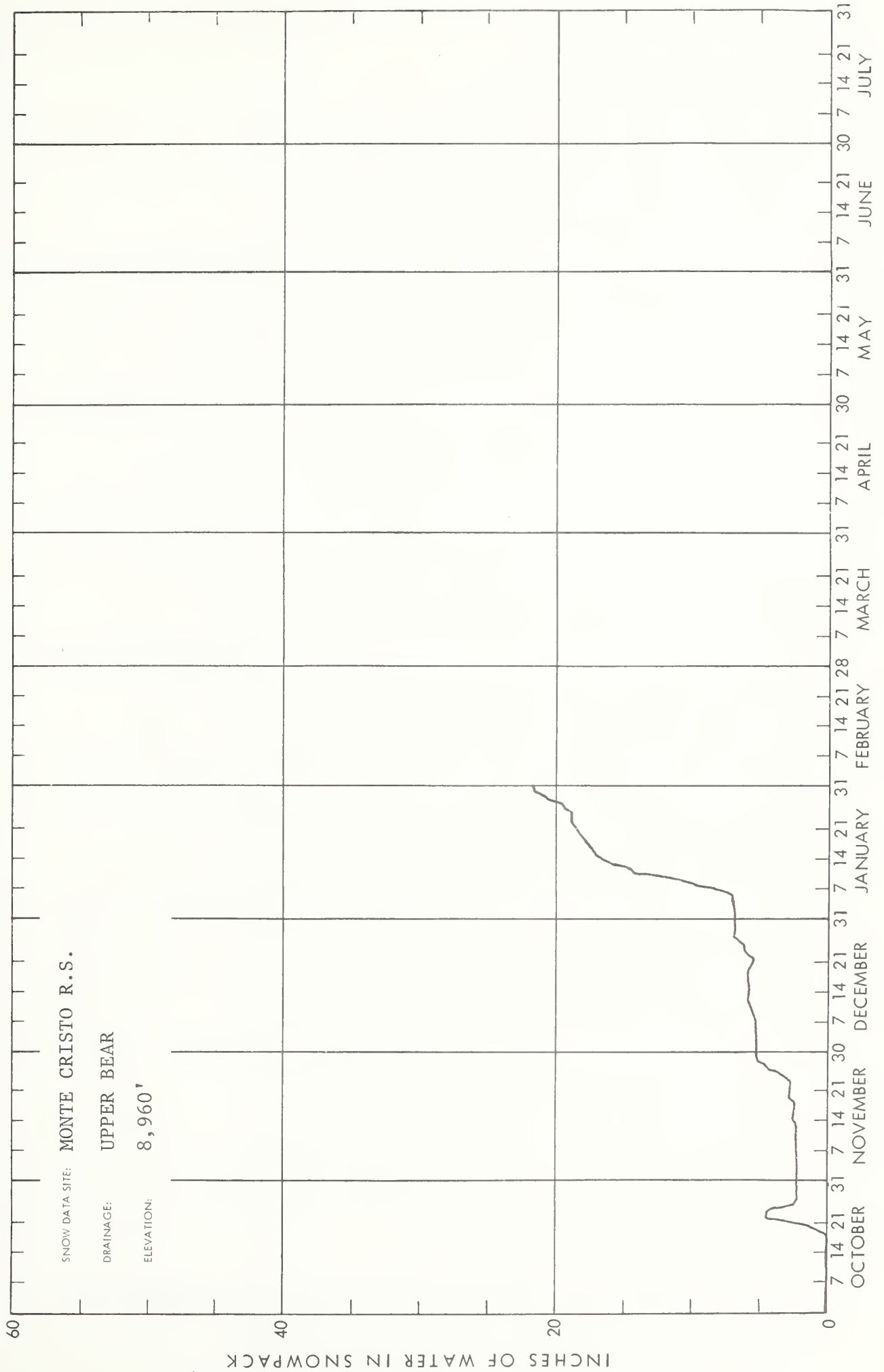
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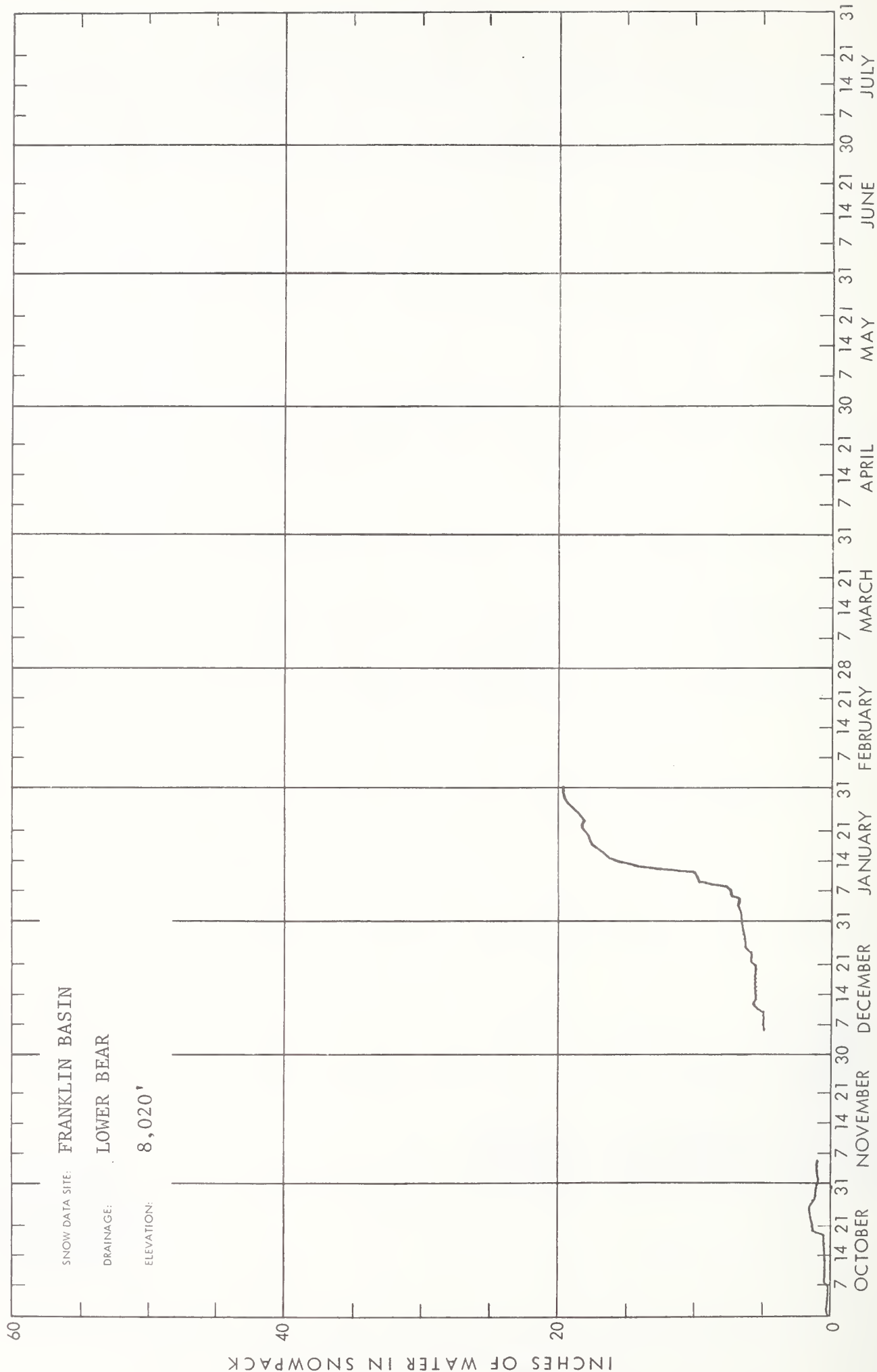


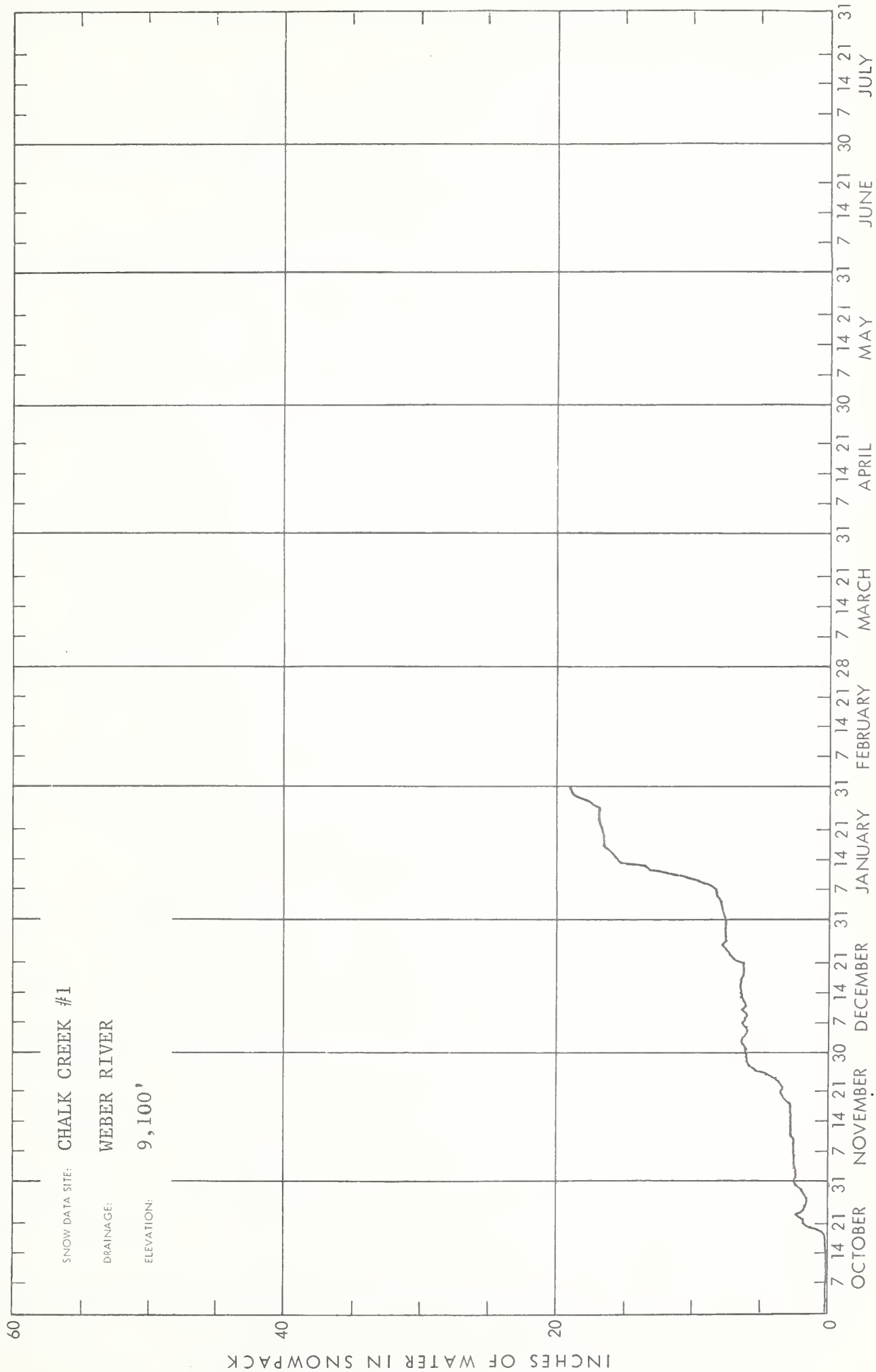
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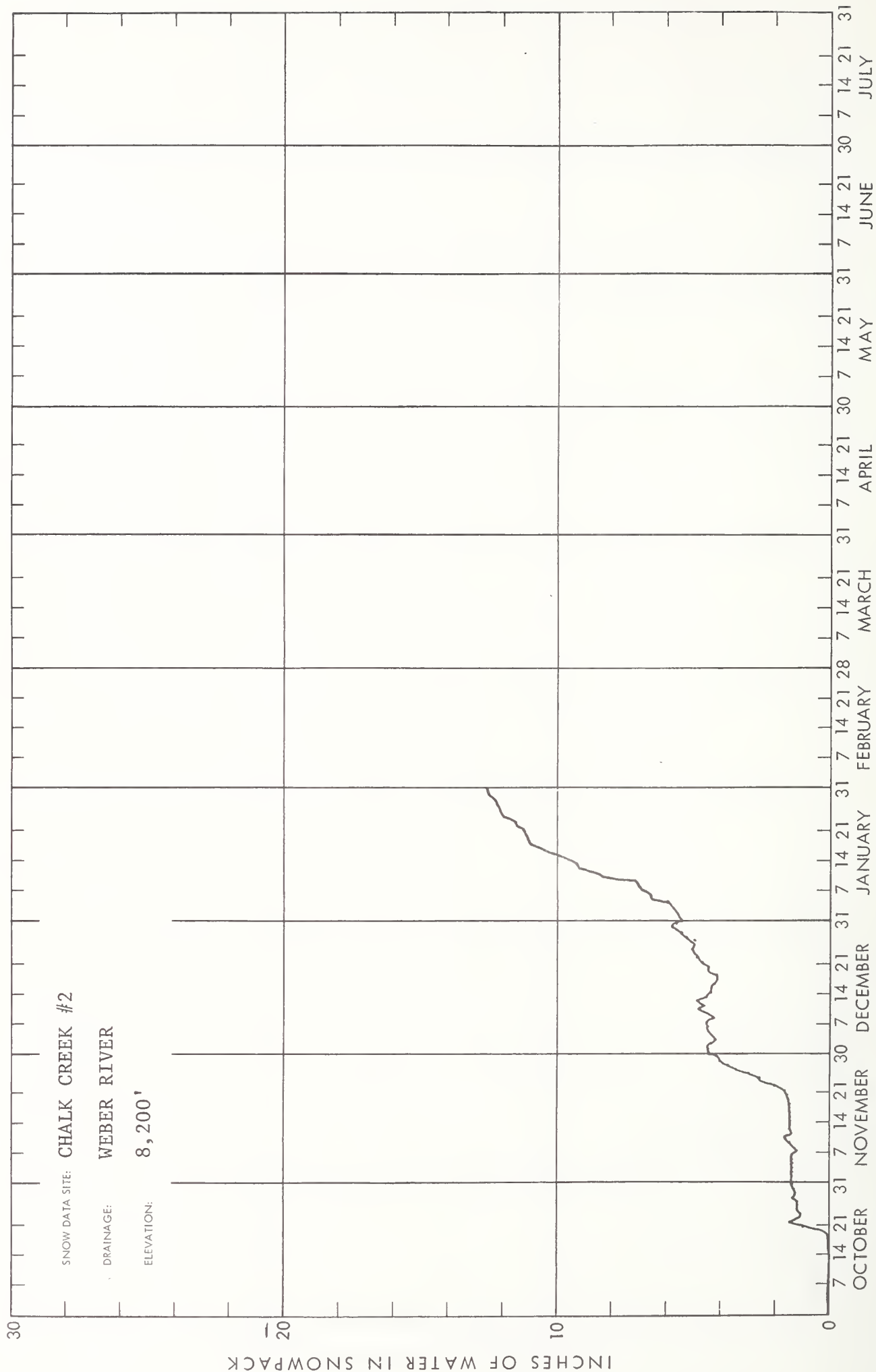


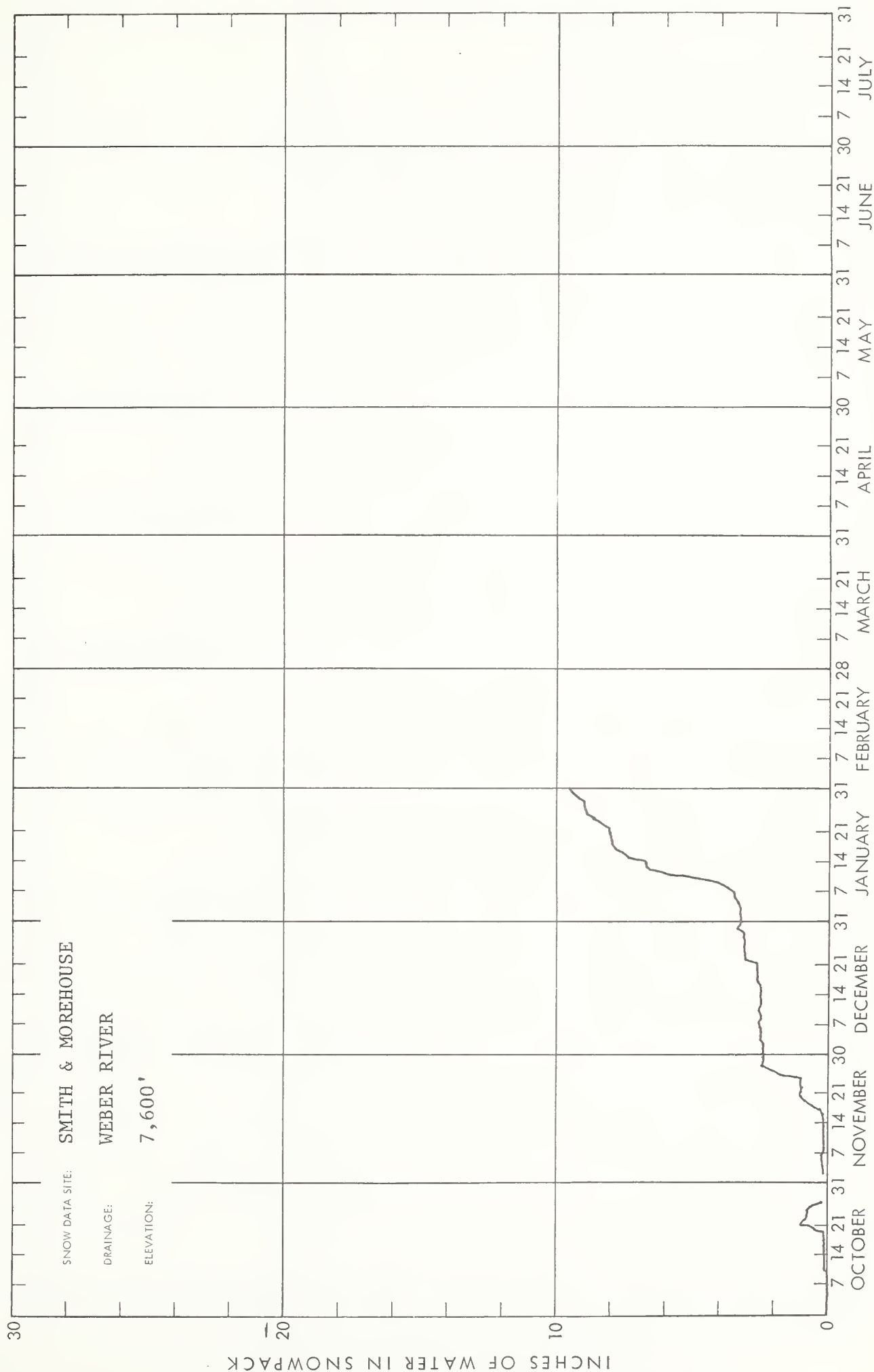
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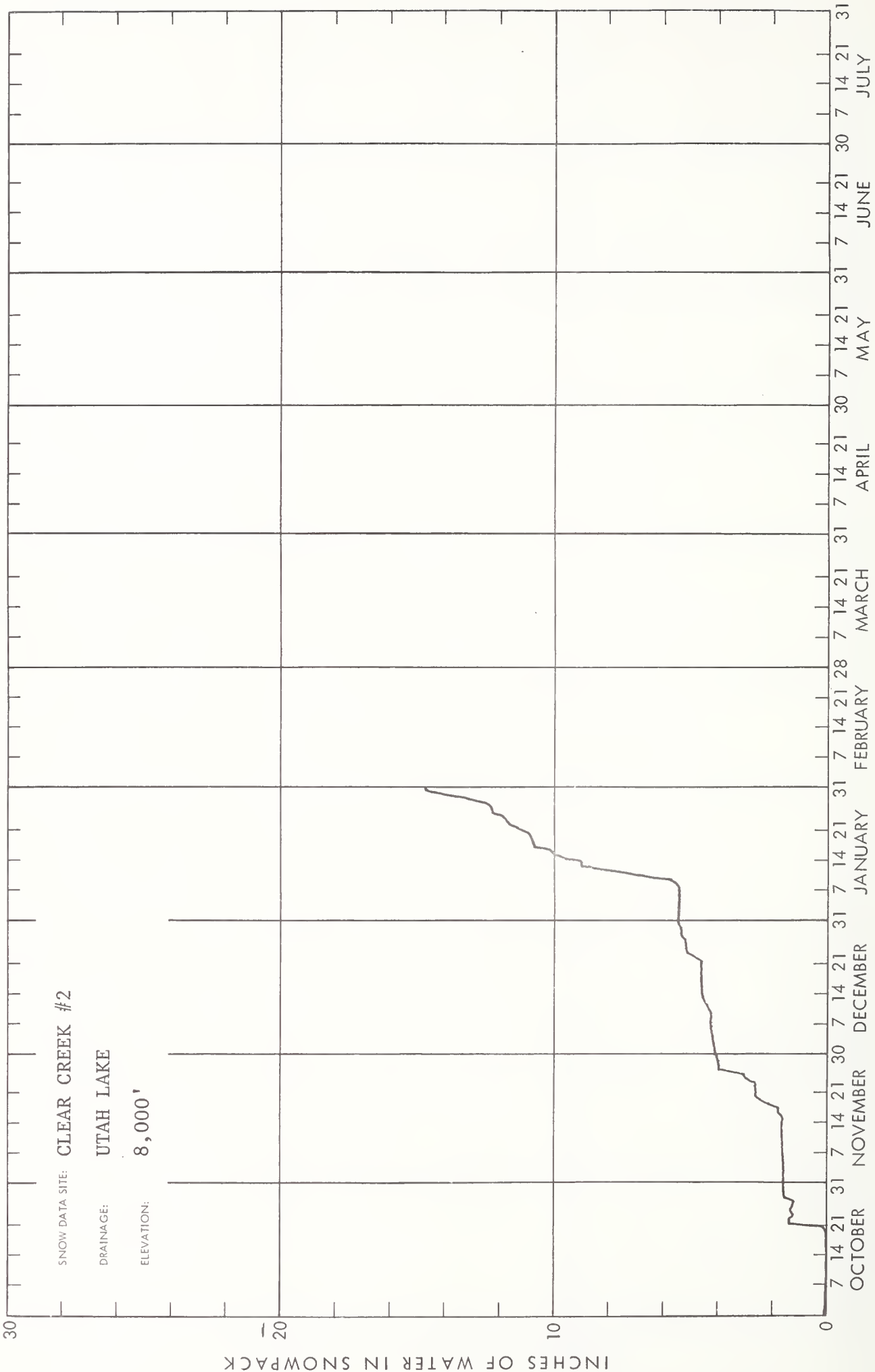


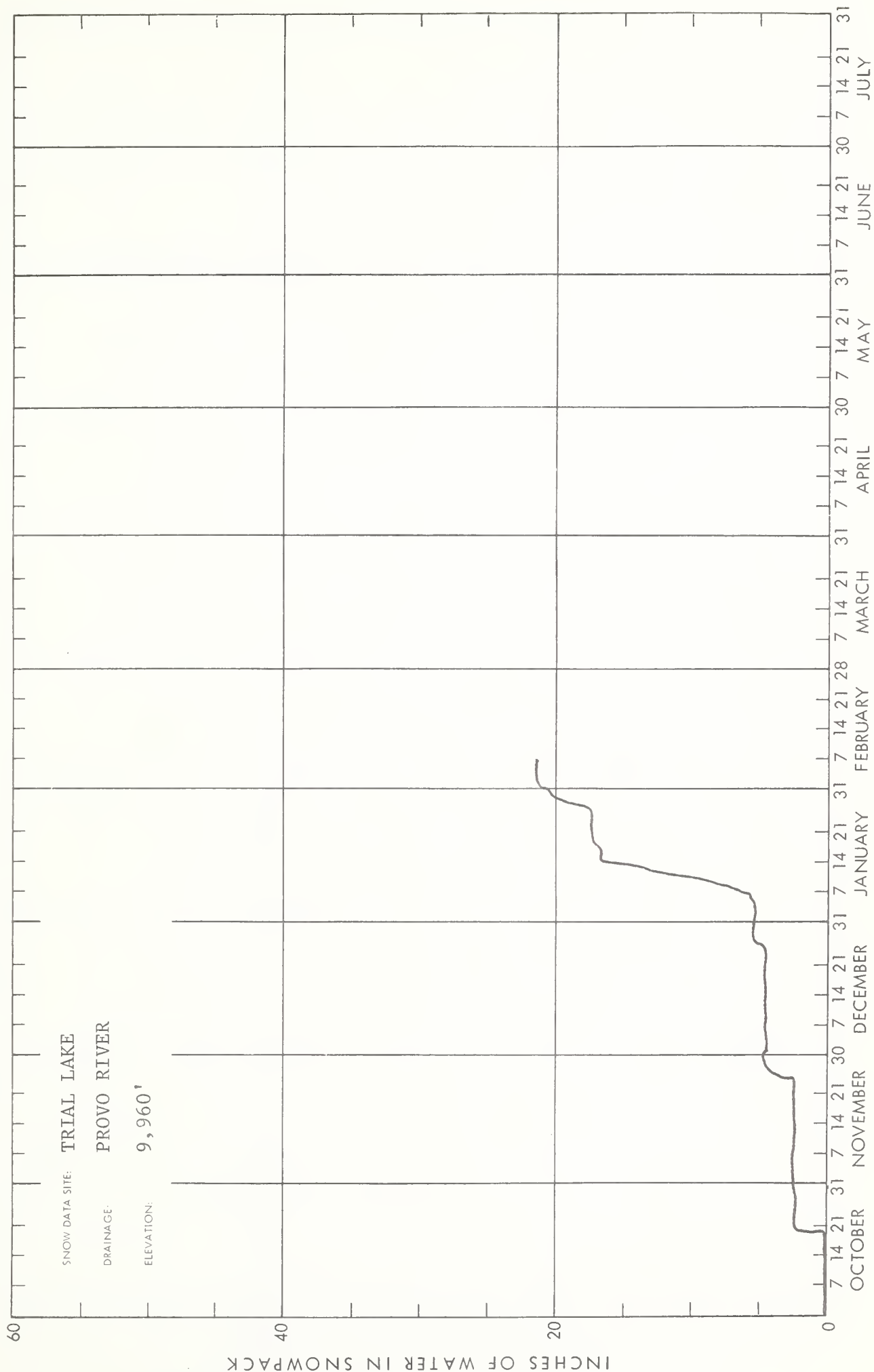


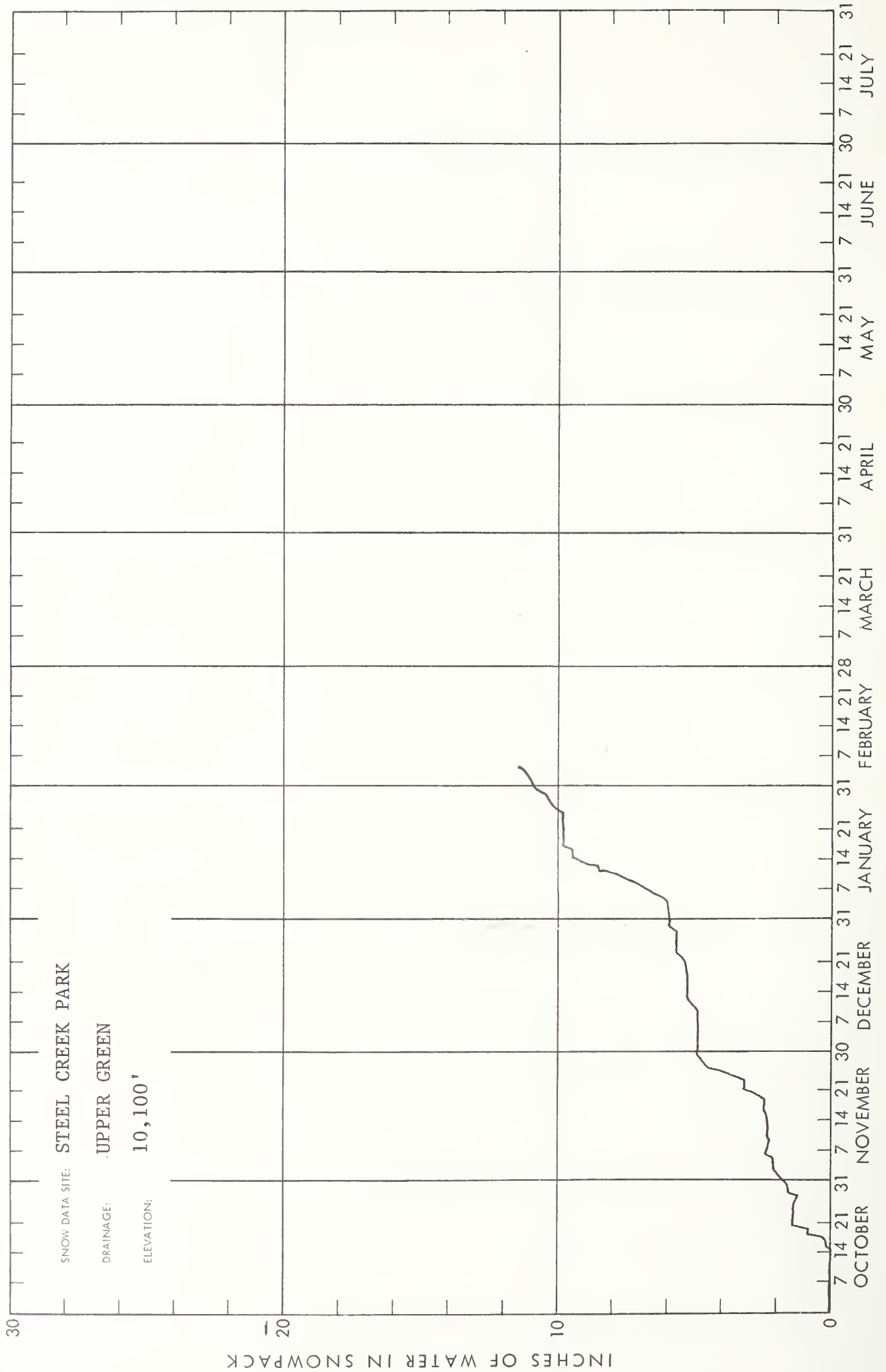


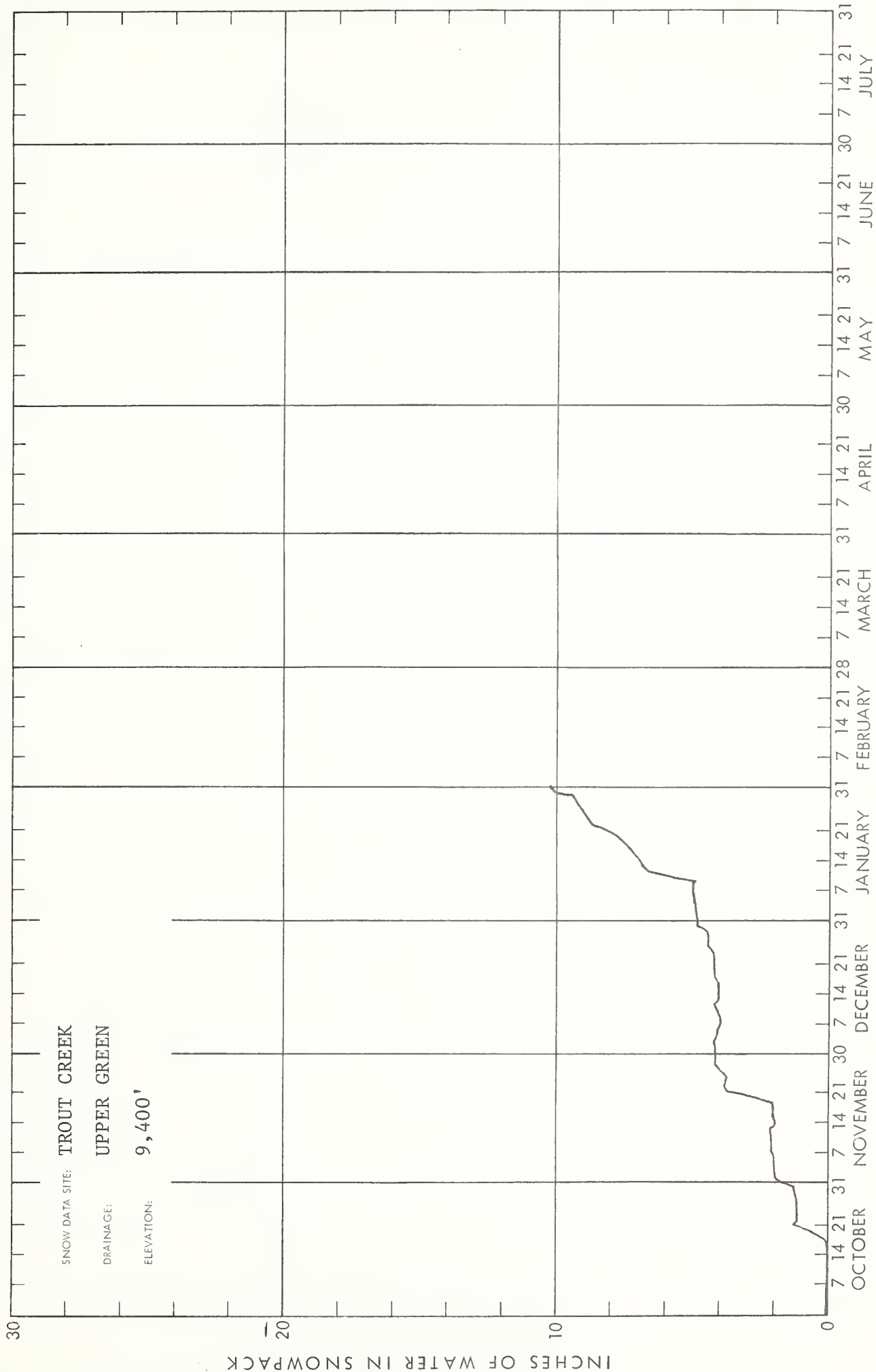


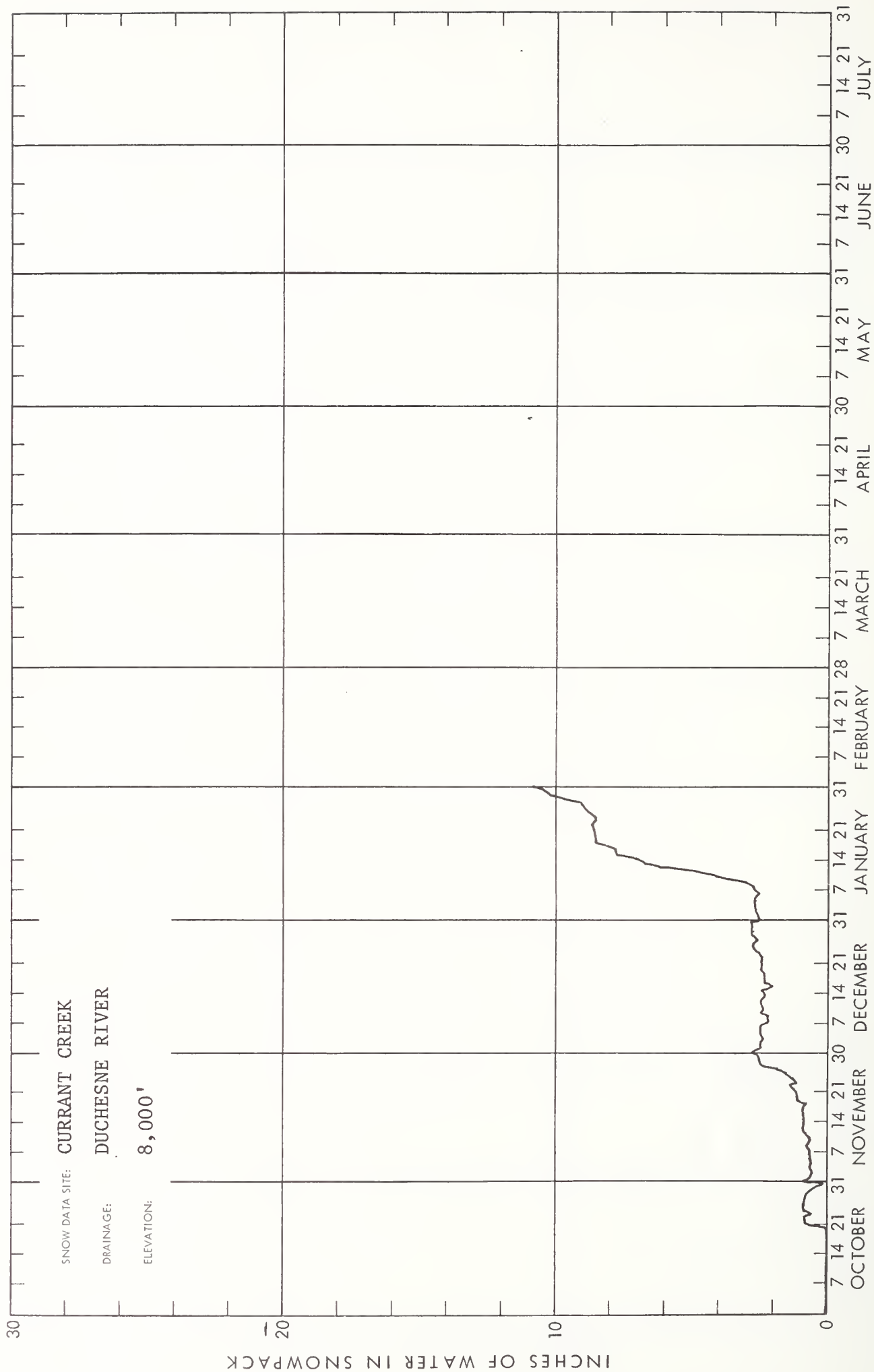


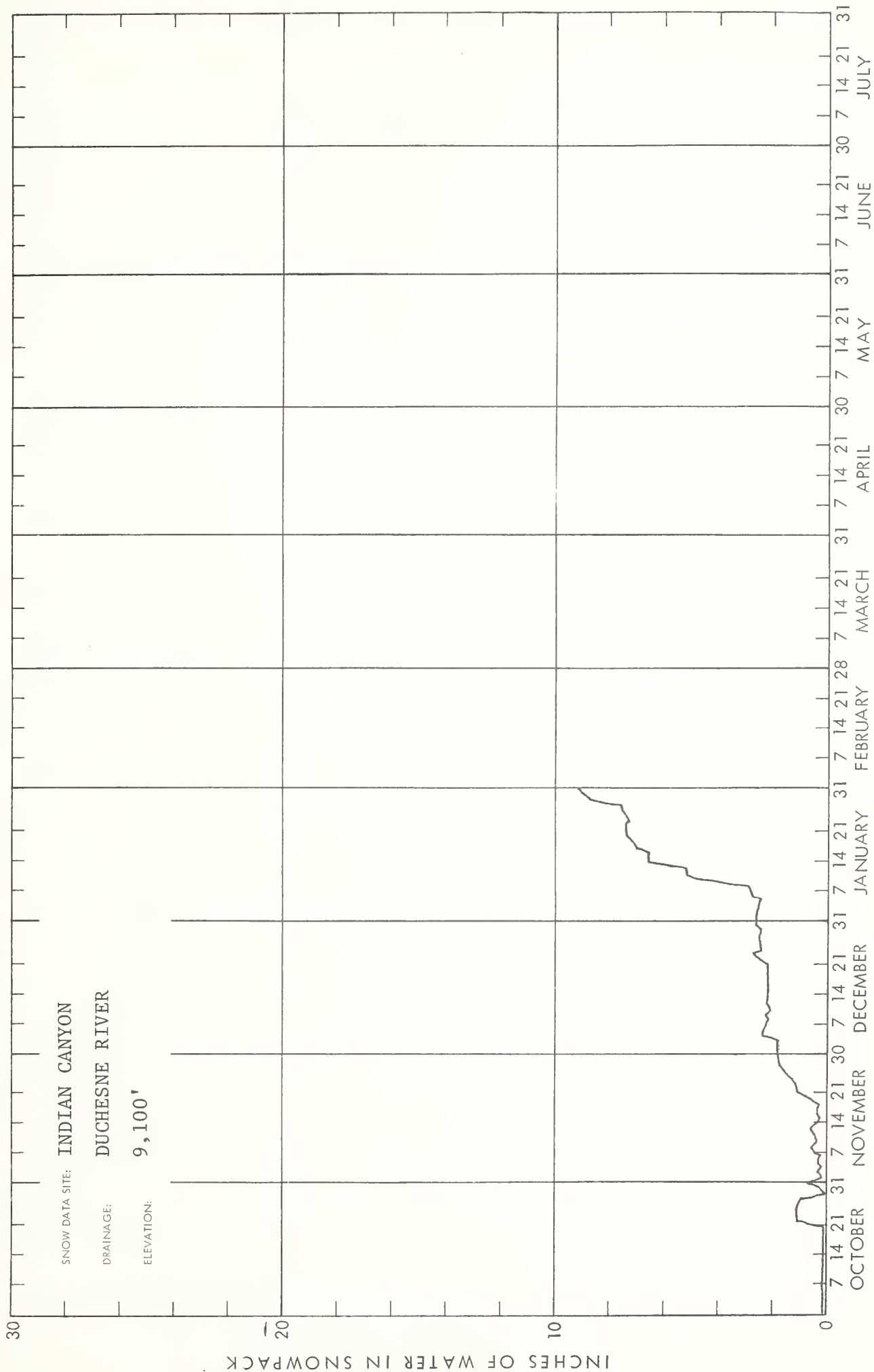


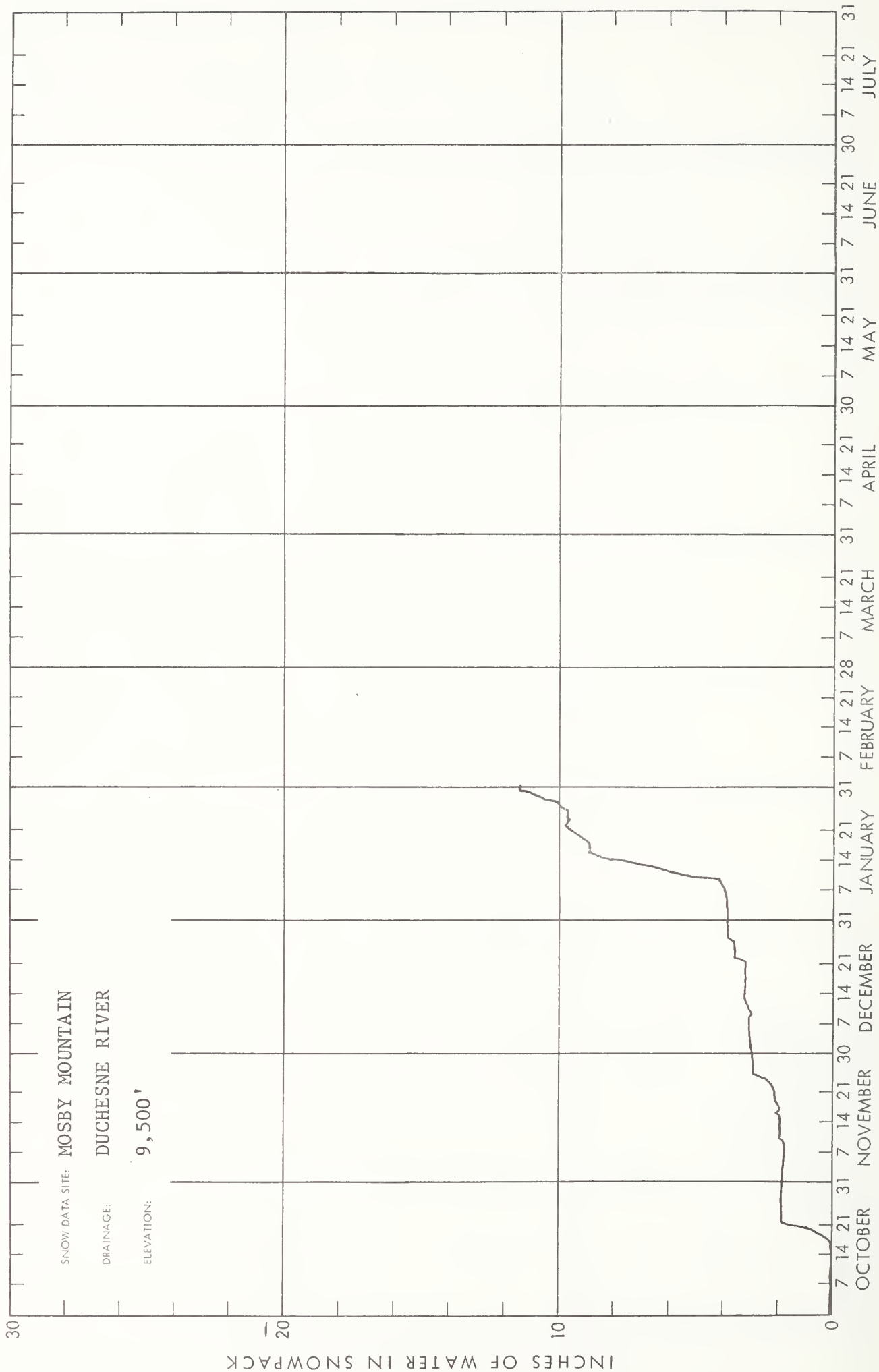


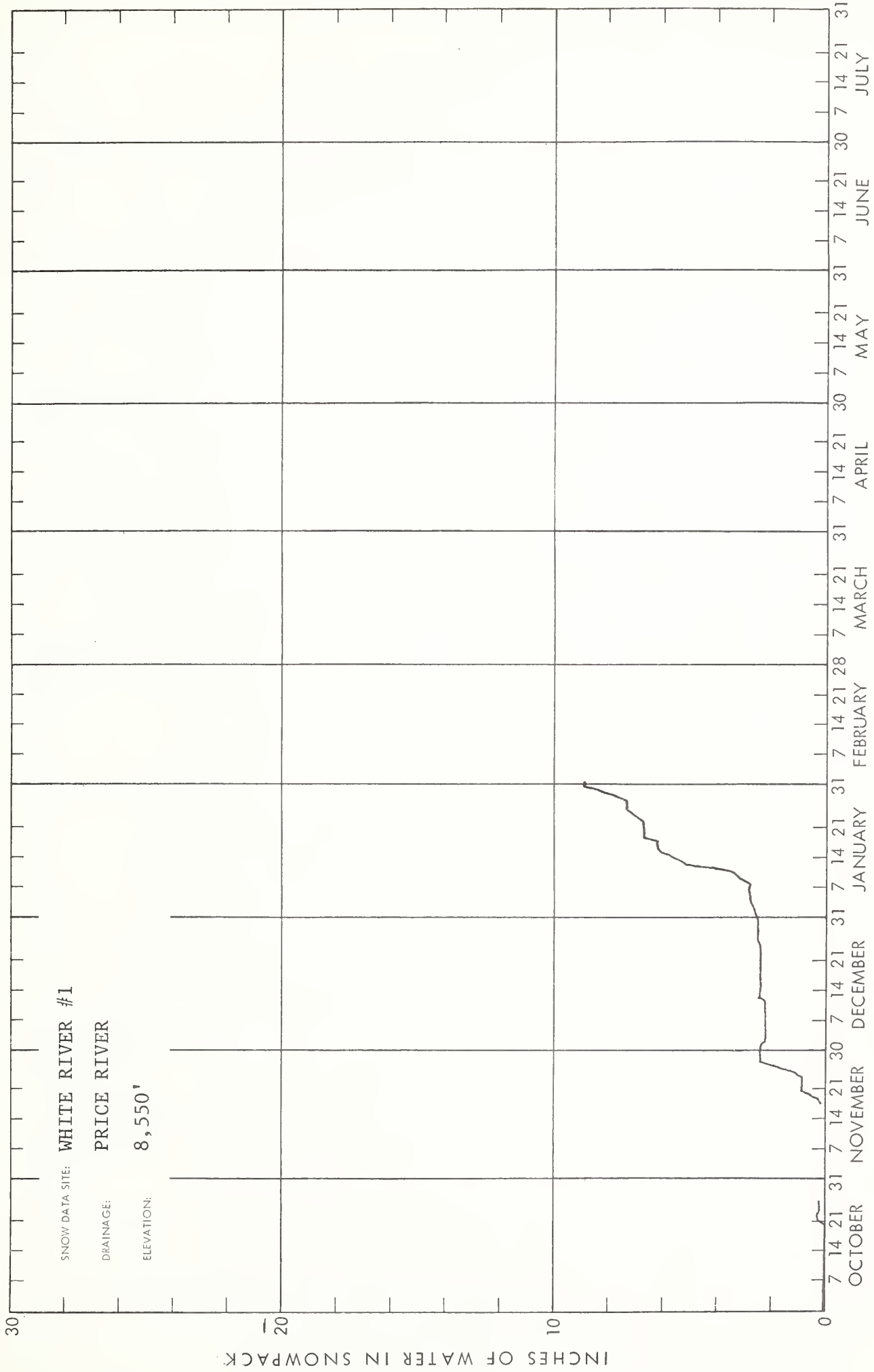


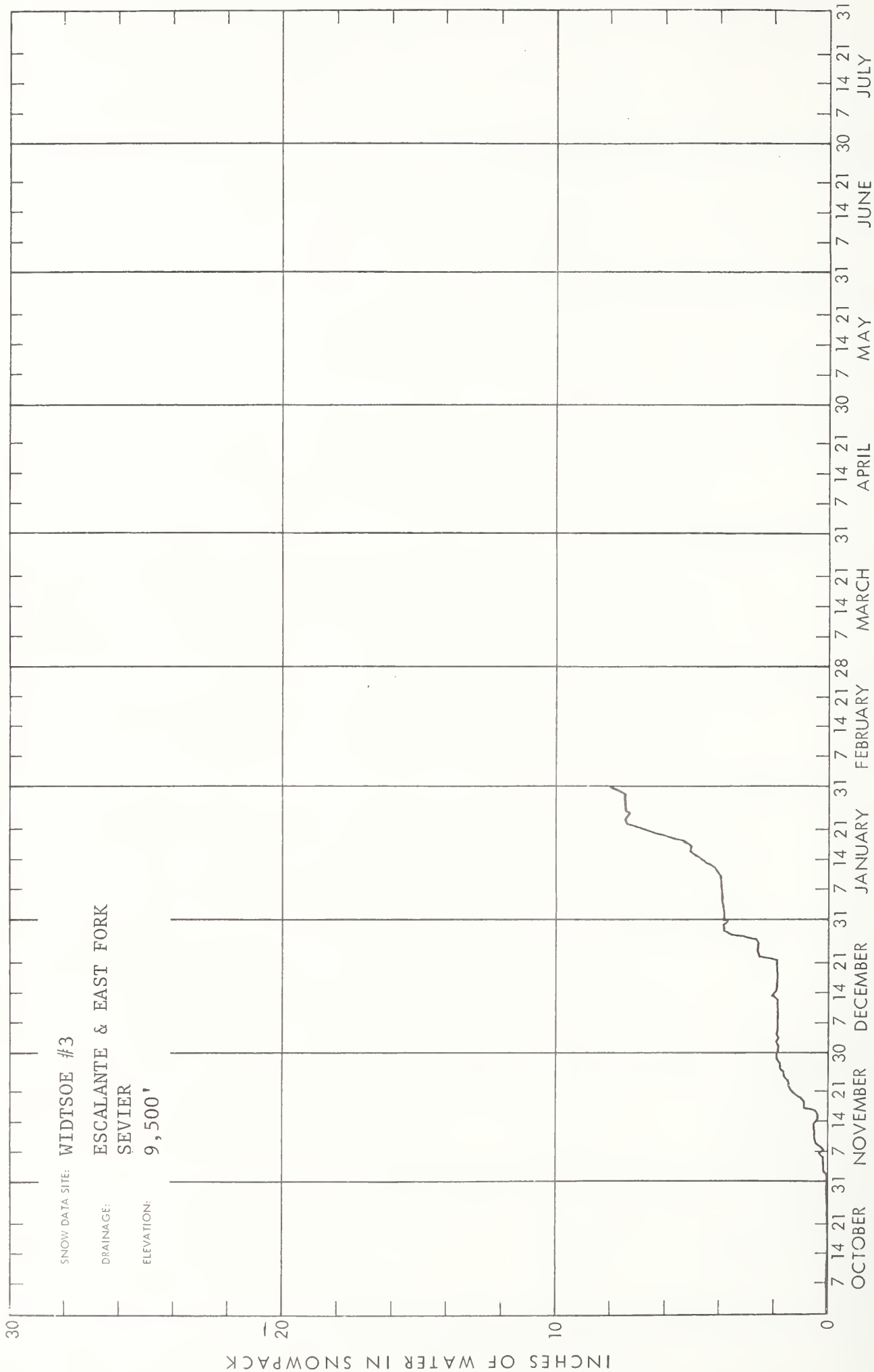


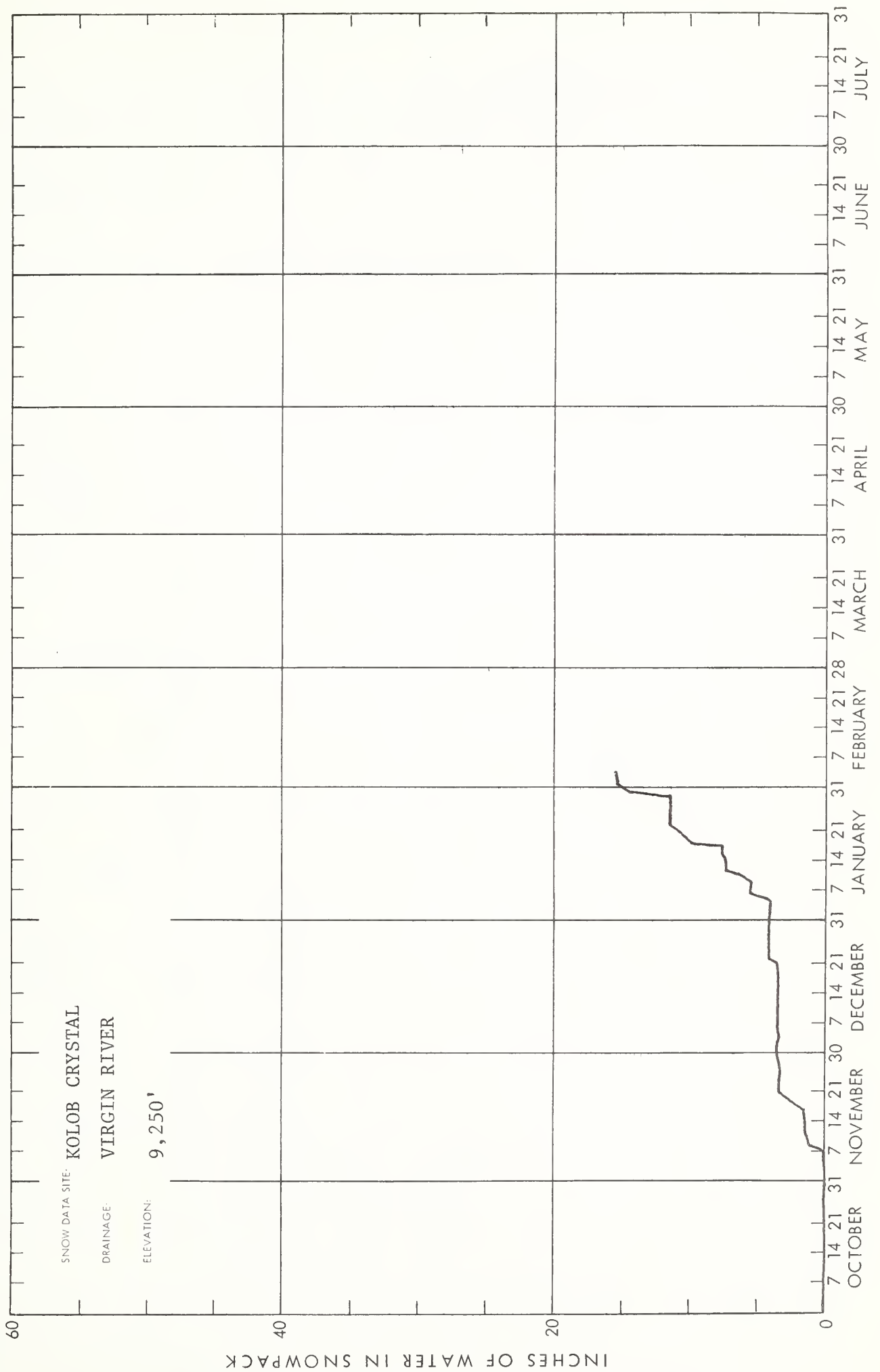












SNOW

PRECIPITATION (Inches)

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)			FROM APPROX. OCT 1 TO DATE		
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
				Last Year	Average †						
NAME											
GREAT BASIN											
UPPER BEAR RIVER (Above Harer, Idaho)											
Burts-Miller Ranch	1/31	31	5.9	4.5	--	1/31	4.16	--	8.70	--	--
CCC Camp	1/30	37	8.2	9.6	8.6						
Hayden Fork	1/31	50	13.3	9.2	9.6b	1/31	8.41	--	16.29	--	--
Monte Cristo R.S.	2/3	61	19.8	16.9	16.3	2/3	11.03	6.10b	19.70	17.12	115
Salt River Summit	1/30	46	10.2	12.2	11.0	1/30	6.93	4.18	12.12	11.35	107
Stillwater Camp	1/31	45	9.8	7.8	7.2	1/31	6.41	--	12.01	--	--
Lily Lake	Not Measured										
LOWER BEAR RIVER (Below Harer, Idaho)											
Bug Lake	2/3	49	14.4	16.2	13.1b	2/1	8.60	--	--	--	--
Cub River R.S.	2/3	22	6.2	8.6	6.4						
Emigrant Summit	1/30	65	16.6	17.8	17.0						
Franklin Basin	2/3	50	18.1	18.1	17.8a						
Garden City Summit	2/3	42	12.8	15.5	11.6	2/3	9.63	4.27	12.80a	12.33	
Klondike Narrows	2/3	45	16.3	15.5	13.0	2/3	9.31	--	17.18	--	--
Little Bear (lower)	2/3	24	7.7	10.6	6.2						
Little Bear (upper)	2/3	28	8.2	12.5	8.7b						
Slug Creek Divide	1/30	47	13.2	11.0	11.5	2/3	9.50	--	--	--	--
Steep Hollow #1	2/3	69	25.2	24.5	23.3						
Steep Hollow #2	2/3	55	19.3	18.3	17.1						
Tony Grove Lake	2/3	74	26.0	26.6	21.5b	2/1	7.40	--	--	--	--
Tony Grove R.S.	2/3	30	9.4	12.4	8.6	2/3	9.14	--	15.69	--	--
Willow Flat	2/3	36	11.6	14.8	10.9	2/3	9.68	5.00b	16.82	15.14	111
OGDEN RIVER											
Beaver Creek-Skunk Creek	2/2	34	10.8	10.8	8.3						
Ben Lomond Peak	2/3	74	27.3	28.1	22.4b						
Ben Lomond Trail	2/3	43	13.8	17.4	12.4b	2/3	16.78	7.56b	27.53	20.51b	134
Causey Dam	--	--	--	--	--	2/2	7.08	2.56b	13.11	9.49	138
Dry Bread Pond	2/2	45	15.9	13.5	12.2	2/1	8.50	--	--	--	--
Sagebrush Flat	2/2	23	6.0	5.8	4.1	2/2	8.11	--	14.40	9.49	152
WEBER RIVER											
Beaver Creek R.S.	2/1	35	8.6	5.8	5.9						
Chalk Creek #1	2/1	71	18.7	12.6	13.6a	2/1	5.50	--	--	--	--
Chalk Creek #2	2/1	50	12.0	8.2	9.7	2/1	5.80	--	--	--	--
Chalk Creek #3	2/1	36	7.5	5.6	5.4	2/1	5.20	--	11.20	9.44b	119
Farmington Canyon (lower)	2/2	50	14.1	18.6	14.0b	2/2	8.50	5.22b	16.35	18.36	89
Farmington Canyon (upper)	2/2	57	18.6	21.9	19.5b	2/1	6.90	--	--	--	--
Farmington G.S.	--	--	--	--	--	2/2	9.42	--	16.87	--	--
Horse Ridge	2/2	56	17.1	18.5	15.0a	2/2	11.05	--	19.46	--	--
Kilfoil Creek	2/2	48	13.6	13.1	--						
Lost Creek Reservoir	--	--	--	6.9	--	2/2	6.25	--	10.88	--	--
Park City Summit	--	--	--	17.3	--						
Parley's Canyon Summit	2/1	45	11.6	11.9	12.7	2/1	7.12	4.31	14.36	14.80	97
Redden Mine (lower)	2/1	54	14.8	--	--	2/1	6.51	--	12.53	--	--
Smith & Morehouse	2/1	39	10.6	8.5	8.9	2/1	7.25	3.55	13.44	11.90	113
PROVO RIVER & UTAH LAKE											
Beaver Creek Divide	2/1	50	12.0	--	8.9b	2/1	8.50	--	--	--	--
Camp Altamont	2/1	43	14.4	16.5	10.2						
Clear Creek Ridge #1	2/2	56	17.3	14.2	11.2b	2/1	8.60	--	--	--	--
Clear Creek Ridge #2	2/2	48	12.9	12.5	9.6b	2/2	7.40	--	13.97	10.87b	129
Clear Creek Ridge #3	2/2	29	7.4	--	5.5						
Dutchman R.S.	2/1	55	17.6	16.0	12.9	2/1	14.85	--	17.60b	--	--
Hobble Creek Summit	2/2	42	10.9	--	9.6	2/2	8.55	--	14.47	--	--
Payson R.S.	2/2	51	15.2	12.2	12.2	2/2	6.52	3.30	14.46	12.04	--
Soapstone R.S.	2/1	48	10.8	9.5	8.6	2/1	8.48	3.39	13.88	11.16	124
South Fork R.S.	2/1	20	4.3	8.8	4.5						
Timpanogos Cave Camp	2/1	9	1.8	4.0	2.3						
Timpanogos Divide	1/31	72	23.2	21.7	16.9	1/31	17.95	4.97	23.95	17.43	137
Trial Lake	2/1	87	20.4	16.8	15.6	2/1	12.93	4.71	20.65	16.20	127

SNOW

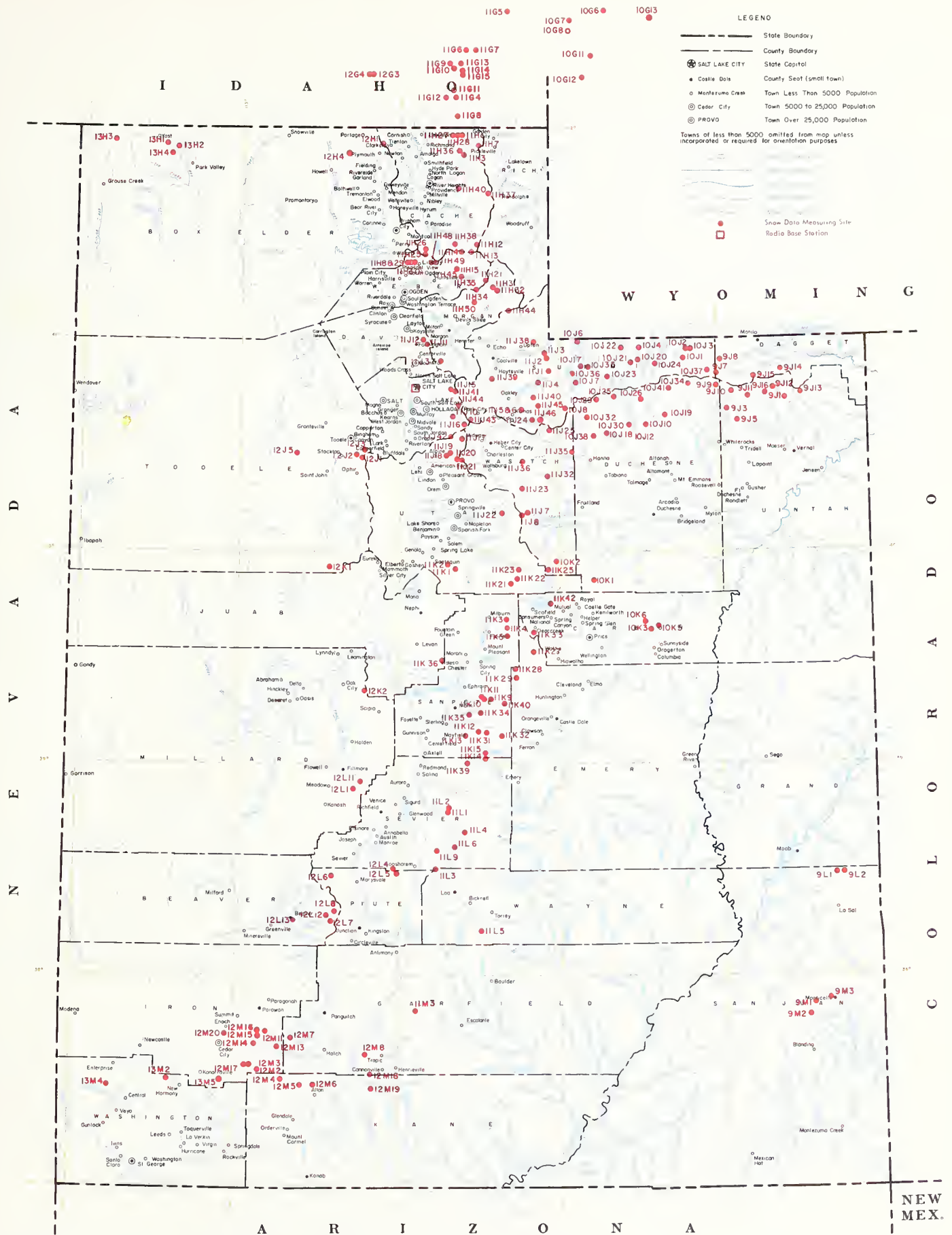
SNOW	THIS YEAR				PAST RECORD		PRECIPITATION (Inches)					
	DRAINAGE BASIN and/or SNOW COURSE NAME	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
					Last Year	Average †	Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
JORDAN RIVER & GREAT SALT LAKE												
Bevan's Cabin												
Lamb's Canyon #2	1/31	43	10.4	10.2	11.1	1/31	6.77	--	12.95	--	--	
Middle Canyon	1/31	31	7.7	9.6	9.2	1/31	3.90	2.71b	9.67	9.74	99	
Mill Creek	2/1	40	10.7	10.9	--							
Mill D South Fork	1/28	34	10.5	12.2	13.2							
Mt. Dell Dam		Not Measured						2.16		9.37		
Rock Basin-Settlement Canyon		Not Measured										
Silver Lake (Brighton)	1/28	61	17.0	15.6	15.8	1/28	--	5.36	--	18.07	--	
Snow Bird (Gad Valley)	2/2	77	23.6	23.8	23.6							
Vernon Creek	1/30	36	8.0	11.2	7.5b	1/30	9.20	--	12.50a	--	--	
UPPER SEVIER RIVER (South of Richfield, Utah)												
Box Creek	1/31	45	10.8	14.2	7.8	1/31	5.92	--	10.94	--	--	
Bryce Canyon	1/28	18	3.7	9.9	3.0							
Castle Valley	1/31	41	10.3	15.4	--	1/31	5.66	--	10.22	--	--	
Duck Creek R.S	2/3	56	14.5	19.8	8.0	2/3	11.71	2.87	15.99	10.90	147	
Farview	1/28	30	7.9	13.7	5.5							
Harris Flat	2/3	34	9.3	14.0	5.3	2/1	7.30	--	--	--	--	
Kimberly Mine	1/31	55	14.1	15.4	9.5b	1/31	7.06	3.13b	13.28	11.20	119	
Midway Valley	2/3	65	18.2	24.0	12.7	2/3	10.13	--	14.98	--	--	
Panguitch Lake	1/31	15	4.0	9.8	--	1/31	2.84	--	5.55	--	--	
Rainbow Point	1/28	29	7.6	16.0	4.6							
Squaw Springs	1/31	32	7.6	9.0	--							
LOWER SEVIER RIVER (Including San Pitch River)												
Beaver Dams	2/1	30	7.8	12.2	9.3b	2/1	3.99	--	9.72	--	--	
Farnsworth Lake	2/3	49	14.1	13.3	11.8	2/3	5.19	3.09	15.03	11.64	129	
G.B.R.C. Headquarters	2/2	41	11.5	12.2	9.8	2/2	4.66	2.98	13.81	11.52	120	
G.B.R.C. Majors		Not Measured						1.42		5.65		
G.B.R.C. Meadows	2/2	54	16.6	15.0	13.5	2/2	6.64	3.84	15.98	13.98	114	
G.B.R.C. Oaks		Not Measured						2.02		7.82		
Gooseberry R.S.	2/3	32	9.1	8.4	7.4	2/3	2.90	2.45b	10.11	7.49b	134	
Mammoth-Cottonwood Creek	2/1	51	16.2	16.4	13.2	2/1	5.10	--	--	--	--	
Middle Fork		Not Measured										
Mt. Baldy R.S.	2/1	61	16.4	21.4	--	2/1	6.16	--	13.76	--	--	
Oak Creek		Not Measured										
Pickle Keg Springs	2/1	46	12.3	13.8	10.5	2/1	5.00	--	--	--	--	
Pine Creek	1/31	46	12.5	11.6	10.6	1/31	4.84	--	13.27	--	--	
Ree's Flat	2/2	37	10.1	8.7	--	2/2	4.93	--	10.99	--	--	
Shingle Mill		Not Measured		6.6	5.7			2.10b		10.25		
Thistle Flat		Not Measured										
BEAVER RIVER												
Beaver Canyon Power House		Not Measured						1.23		5.45		
Beaver Race Track	1/31	2	0.5	1.2	0.7							
Big Flat	1/31	57	13.8	18.2	10.0	1/31	7.71	--	12.16	9.93	122	
Merchant's Valley (upper)	1/31	41	9.8	11.2	7.5b	1/31	6.14	--	10.18	9.18b	111	
Otter Lake	1/31	42	10.4	14.6	7.5							
PAROWAN CREEK												
Birch Crossing	1/31	31	9.0	9.3	4.3b							
Brian Head	1/31	59	15.5	21.2	12.4b							
Tall Poles	1/31	47	12.2	14.7	8.5b	1/31	5.15	2.20b	11.85	9.48b	125	
Yankee Reservoir	1/31	29	7.6	10.6	--	1/31	3.42	--	9.46	--	--	
ENTERPRISE TO NEW HARMONY DRAINAGES												
Little Grassy Creek	2/3	22	7.3	13.5	--	2/3	6.11	--	8.72	--	--	
Long Flat	2/3	22	5.7	13.6	4.7	2/3	6.30	--	10.17	--	--	
COAL CREEK												
Cedar City Golf Course	1/31	3	0.5	1.6								
SUSC Ranch	1/31	29	7.3	14.0	5.8b							

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)			FROM APPROX. OCT 1 TO DATE		
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
				Last Year	Average †						
COLORADO RIVER DRAINAGE											
UPPER GREEN RIVER - UTAH											
Ashley-Twin Lakes (A)	Not Measured										
Black's Fork G.S.-East Fork	1/31	31	7.5	6.4	--	1/31	4.28	--	9.58	--	--
Black's Fork Junction	1/31	42	9.6	6.9	--	1/31	4.87	--	10.87	--	--
Buck Pasture (A)	Not Measured										
Burnt Creek	1/31	28	5.7	5.0	--	1/31	2.20	1.60b	8.90	6.09b	146
Dutch John Junction	Not Measured										
Grizzly Ridge	1/31	47	11.5	9.1	--	1/31	5.57	2.44b	12.45	8.75b	142
Hewinta G.S.	1/31	38	9.1	6.3	--	1/31	5.02	--	11.40	--	--
Hickerson Park	1/31	33	7.5	5.0	--						
King's Cabin (upper)	1/31	50	10.3	7.8	--						
Reynolds Park (A)	Not Measured										
Spirit Lake	1/31	41	10.0	9.8	--	1/31	3.94	--	11.05	--	--
Steel Creek Park	1/31	54	13.0	9.0	--	2/1	5.70	--	--	--	--
Trout Creek	1/31	44	9.5	9.1	--	1/31	5.17	--	11.27	--	--
Windy Park (A)	Not Measured										
DUCHESNE RIVER											
Atwood Lake (A)											
Brown Duck Ridge	2/1	69	16.5	--	9.5	2/1	13.55	--	18.55	--	--
Chepeta-Whiterocks (A)	Not Measured										
Currant Creek	2/2	45	11.8	--	7.3b	2/2	9.28	--	13.45	--	--
Daniels-Strawberry Summit	2/2	48	14.1	10.6	10.0	2/2	11.57	3.59	17.86	12.03	148
East Portal	1/30	41	9.0	11.5	7.4			3.34		11.14	
Five Points Lake (A)	Not Measured										
Indian Canyon	2/2	42	11.1	14.1	8.0	2/2	7.78	2.41	11.13	8.69	128
Jackson Park	--	--	--	10.5	--	2/1	9.55	--	13.50	--	--
Lakefork Basin (A)	Not Measured										
Lakefork Mountain	2/1	46	10.4	10.2	6.8	2/1	8.40	--	12.20	8.68	139
Lakefork Mountain #3	2/1	40	9.4	--	--						
Lightning Lake (A)	Not Measured										
Mosby Mountain	2/1	44	10.5	7.5	6.3	2/1	7.95	2.28b	12.10	8.87	136
Paradise Park	2/1	49	12.5	12.6	8.3	2/1	5.80	2.39b	9.85	9.36	105
Rock Creek Ranch	2/1	36	9.5	6.9	--	2/1	7.85	--	10.82	--	--
Strawberry Divide	1/30	55	15.6	16.4	12.4	2/1	10.00	--	--	--	--
PRICE RIVER											
Dry Valley Divide Alternate	2/1	42	9.9	9.9	7.2						
Mud Creek	2/1	48	11.8	11.8	8.8	2/1	6.78	2.70	12.20	9.20	133
White River #1	2/2	44	11.6	13.9	8.6	2/2	6.69	--	10.99	--	--
White River #3	2/2	32	8.2	8.1	--						
SAN RAFAEL RIVER											
Buck Flat	2/1	51	12.8	14.4	10.2	2/1	7.15	--	13.30	11.29b	118
Huntington-Horseshoe	2/1	53	16.1	17.6	14.8b						
Orange Olsen	2/1	30	5.9	4.5	--	2/1	4.50	--	7.10	5.22b	136
Red Pine Ridge	2/1	49	12.0	11.4	10.7	2/1	6.98	--	12.58	12.77	99
Seeley Creek R.S.	2/2	37	11.4	12.5	9.3b						
Stuart R.S.	2/1	37	8.1	8.0	--	2/1	5.44	--	8.44	--	--
Upper Joe's Valley	2/1	40	8.5	7.8	6.6						
Wrigley Creek	2/1	43	10.6	--	6.4						
MUDDY RIVER											
Black's Fork	2/1	44	10.6	--	7.7b						
Dill's Camp	2/1	44	10.5	9.6	7.0b	2/1	5.30b	--	10.4b	--	--
FREMONT RIVER											
Black's Flat-U.M. Creek	2/3	37	9.4	10.4	6.9	2/3	4.89	--	9.75	--	--
Fish Lake	2/3	27	5.7	9.0	5.2	2/3	4.40	1.33b	7.44	6.35	117
Johnson Valley	2/3	27	6.0	8.8	4.3						

SNOW

SNOW	THIS YEAR		PAST RECORD		PRECIPITATION (Inches)						
DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
NAME				Last Year	Average †	Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
SOUTHEASTERN UTAH DRAINAGES											
Buckboard Flat	1/28	48	12.7	21.1	7.1e						
Camp Jackson	1/28	46	12.6	19.3	7.3e						
LaSal Mountain (lower)	1/30	33	8.1	9.0	5.4e						
LaSal Mountain (upper)	1/30	47	12.2	15.6	8.6e	1/30	4.80	--	11.00	--	--
Monticello City Park	1/31	22	5.9	8.8	--						
ESCALANTE RIVER											
Widtsoe-Escalante #3	2/3	36	9.4	14.6	6.4	2/3	5.22	1.58	10.15	7.59	134
VIRGIN RIVER											
Kolob-Crystal	2/3	69	18.5	28.8	13.3b	2/1	12.40				
Long Valley Junction	2/3	32	8.5	15.8	3.2						
Webster Flat	2/3	57	16.1	21.0	10.2	2/3	11.70	3.48	17.49	11.62	151
a - Partly Estimated b - Average of past record in average period - less than 15 years + - 1963-77 15 year average period (A) - Aerial Marker Reading											



USGS National Atlas 1:1,000,000 Albers Equal-Area projection (1967) used as source for base map and adopted for SCS use.

SCALE 1:1,000,000
ALBERS EQUAL AREA PROJECTION

INDEX TO UTAH, DEAR & OFFER COLORADO RIVER BASINS

LEGEND	
Numbering System	example
1017	Snow Course Only
1017P	Snow Course and Precipitation Gage
1017M	Snow Course and Soil Moisture Station
1017MA	Snow Course, Soil Moisture Station and Aerial Marker
1017P+M	Snow Course, Soil Moisture Station and Precipitation Gage
1017a	Aerial Marker Only
1017P+M+a	Snow Course, Precipitation Gage and Aerial Marker
1017P+M+a+T	Snow Course, Precipitation Gage, Snow Pillow and Temperature
1017PST	Special Data Site

Agencies Cooperating in Utah Snow Surveys

U.S. GOVERNMENT AGENCIES

U.S. Department of Agriculture
Soil Conservation Service
Forest Service
U.S. Department of Commerce
NOAA, National Weather Service
U.S. Department of Interior
Bureau of Reclamation
Geological Survey
National Park Service

STATE AGENCIES

Utah State Department of Natural Resources,
Division of Water Resources and Division of
Wildlife Resources
Bear River Commissioner
Price River Commissioner
Provo River Commissioner
Sevier River Commissioners
Spanish Fork River Commissioner
Utah Lake and Jordan River Commissioner

MUNICIPALITIES

Manti
Salt Lake City

ORGANIZED PUBLIC AGENCIES

Beaver River Water Users Association
Board of Canal Presidents - Jordan River
Emery Canal and Reservoir Company
Moon Lake Water Users Association
Ogden River Water Users Association
Provo River Water Users Association
Strawberry Water Users Association
Sevier River Water Users Association
Weber River Water Users Association
Weber River Water Conservancy District

PRIVATE AGENCIES

Kaiser Steel Corporation

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